EPCE01-12

New products 2002



Split, Multi Split & Sky Air

Hi-VRV

Hydronic systems

Medium temperature range refrigeration units

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Split, Multi Split & Sky Air

R-410A

R-407C

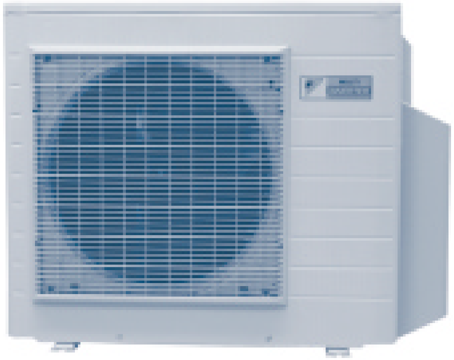
Hi-VRV

Hydronic systems

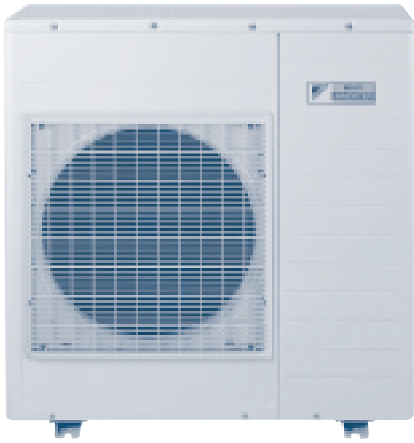
Medium temperature range refrigeration units

Measuring conditions

Note: We would like to point out that all data mentioned in this catalogue are preliminary and therefore still subject to change



4MK58,75AZVMB
3MX52AZVMB
4MX68AZVMB



4MK90AZVMB
4MX80AZVMB

3MX52AZVMB 4MK58-90AZVMB 1 4MX68-80AZVMB

Inverter Multi Systems on R-410A

BACKGROUND

In 2002 Daikin will supplement the existing R-22 range of Multi inverter systems with new HFC R-410A Multi inverter systems featuring high COP values (<u>up to 3.5 in cooling and 4.1 in heating!</u>) and new user friendly functions.
A variety of different indoor units can be connected, including wall mounted, flexi type units, floor standing and ducted models. (for explanation on indoor units, see chapter 3)
In contrast to the competition, which only offers heat pump models, the new Daikin equipment will be launched in both cooling only and heat pump R-410A Multi inverter formats.

MODEL RANGE: OUTDOOR UNITS

		5.8/5.2kW	7.5/6.8kW	9.0/8.0kW
Cooling only	Current (R-22)			4MK90HV1NB
	New (R-410A)	4MK58AZVMB	4MK75AZVMB	4MK90AZVMB
Heat pump	Current (R-22)	2MX52HV1NB	3MX68HV1NB	4MX80HV1NB
	New (R-410A)	3MX52AZVMB	4MX68AZVMB	4MX80AZVMB

Indoor units for multi connection (for more info on indoor units, see chapter 3)

MODEL RANGE

Indoor units - cooling only					
Class		**25**	**35**	**50**	**60**
Wall mounted	Current (R-22)	FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
	New (R-410A)	FTK25AZVMB	FTK35AZVMB	FTK50AZVMB	FTK60AZVMB
Concealed ceiling	Current (R-22)	CDK25HAV1NB	CDK35HAV1NB	CDK50HAV1NB	CDK60HAV1NB
	New (R-410A)	CDK25AZVMB	CDK35AZVMB	CDK50AZVMB	CDK60AZVMB
Floor standing	Current (R-22)*	FVK25KZV1B	FVK35KZV1B	-	-
	New (R-410A)	-	-	-	-
Flexi type	Current (R-22)	-	-	-	-
	New (R-410A)	FLK25AZVMB	FLK35AZVMB	FLK50AZVMB	FLK60AZVMB

MODEL RANGE

Indoor units - heat pump						
Class		**25**	**35**	**50**	**60**	**71**
Wall mounted	Current (R-22)	FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B
	New (R-410A)	FTX25AZVMB	FTX35AZVMB	FTX50AZVMB	FTX60AZVMB	FTX71AZVMB
Concealed ceiling	Current (R-22)	CDX25HAV1NB	CDX35HAV1NB	CDX50HAV1NB	CDX60HAV1NB	-
	New (R-410A)	CDX25AZVMB	CDX35AZVMB	CDX50AZVMB	CDX60AZVMB	-
Floor standing	Current (R-22)*	FVX25KZV1B	FVX35KZV1B	-	-	-
	New (R-410A)	FVX25AZVMB	FVX35AZVMB	FVX50AZVMB	FVX60AZVMB	-
Flexi type	Current (R-22)	-	-	-	-	-
	New (R-410A)	FLX25AZVMB	FLX35AZVMB	FLX50AZVMB	FLX60AZVMB	-

(*) Note : These units are R-410A indoor units which can also be connected to the current inverter multi outdoor units using R-22.

FEATURES OF OUTDOOR UNITS OVERVIEW

1. **Energy saving via the latest Daikin technology**
   - Swing compressor
   - Reluctance DC motor
   - PAM control
2. **Quiet Operation**
   - Outdoor unit silent operation
   - Night quiet mode
3. **Wider operation range**
4. **Changes for installation and after sales service works.**
5. **User friendly functions**
   - Priority room setting
   - Cooling / Heating mode lock (Heat pump models only)
6. **Improved durability**

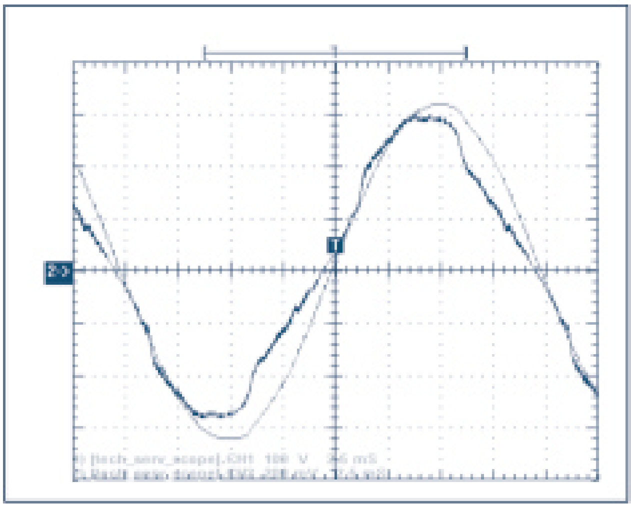
Detailed info

1. Energy saving with the latest Daikin technology

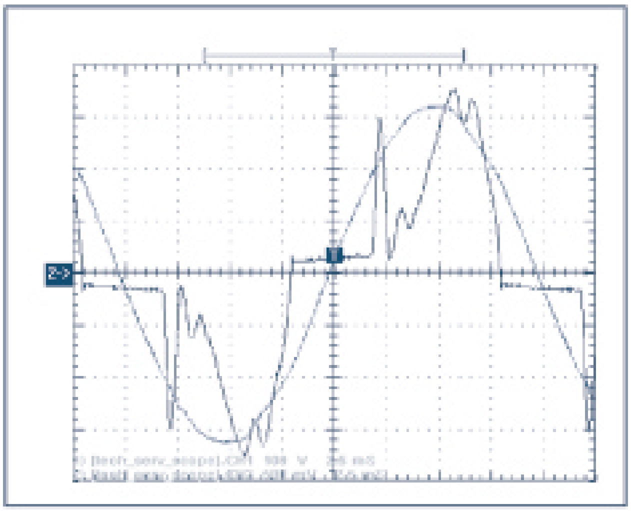
- The use of a Daikin swing compressor results in:
  - Substantial energy savings due to smooth rotation with minimal friction and refrigerant gas compression with limited losses
  - Low vibrations and low noise stemming from smooth roller movements
  - High durability - very few components rub together during operation

- The use of a reluctance DC inverter motor results in substantial energy savings, since more power is generated with far less electric consumption than in normal motors. The double torque - magnetic and reluctance torque - inherent in the reluctance DC motor results in less energy consumption than with magnetic torque only, regular DC motors. The magnetic force generated by the neodymium magnets is far stronger than that of regular magnets, resulting in higher energy efficiency.

- The use of PAM (Pulse Amplitude Modulation) control ensures full use of power and controls motor voltage, even under high load conditions. This results in high rotational speed and better performance levels. PAM also improves the quality of the signal at the power terminals. It will result in a much higher cos φ value, which indicates a more efficient use of power.



Power supply (bold line) and voltage with PAM



Power supply (peaks) and voltage without PAM

The combination of highly efficient R-410A refrigerant and the technology outlined above results in exceptional COP values - up to 3.5 in cooling and 4.1 in heating!

2. Quiet operation

The tables below illustrate the sound pressure levels compared with current R-22 inverter models :

COOLING ONLY

	4MK58	4MK75	4MK90
Current (R-22)	-	-	49
New (R-410A)*	46/43	48/45	48/45

HEAT PUMP

	2(3)MX52		3(4)MX68		4MX80	
	Cooling	Heating	Cooling	Heating	Cooling	Heating
Current (R-22)	45	46	46	47	49	49
New (R-410A)*	46/43	47/44	48/45	49/46	48/45	49/46

* Second sound levels are sound pressure levels when using outdoor unit silent operation (see below for more explanation)

The new Multi inverter units are equipped with 3 types of "silent mode" functions, 1 to reduce the sound level of the indoor unit, and 2 functions to reduce the sound level of the outdoor unit :

	Type	Effects*1 (dB(A))	Remark
INDOOR	Indoor unit silent operation	H:37 L:30 -> LL:(27)	Air flow: ultra low blow set via the remote controller
OUTDOOR	Outdoor unit silent operation	48 -> (45)*2	Air flow: low blow set via the remote controller
	Night quiet mode	48 -> (45)*2	Requires initial setting Cooling operation only

*1: In case of using outdoor unit 4MK90AZ with indoor unit FTK25AZ
*2: Minimum = 39dB(A) sound pressure (when operating only 1 unit)
(): Target value

Detailed Explanation :

- a. **Indoor silent operation** : please refer to explanation regarding indoor units
- b. **Outdoor unit silent operation**



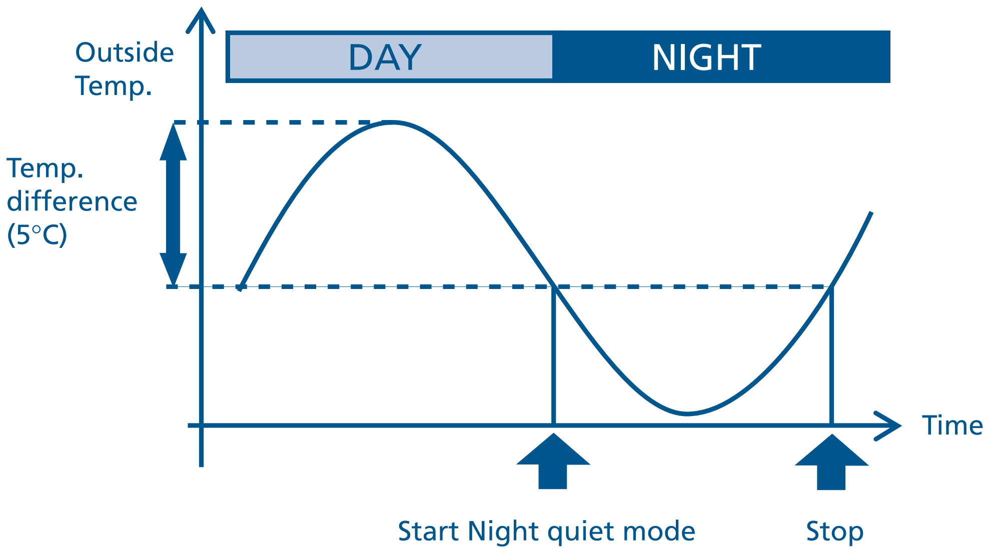
When the SILENT button is selected on the remote control of the indoor unit (see picture) , operating sound of the outdoor unit is reduced by 3dB(A) (sound pressure), by lowering the revolution speed of the compressor and outdoor fan.
This is a a useful means of reducing the sound level, particularly during night time operation in order not to cause local disturbances.

Important remark :
In the event that "Priority room setting " is not active, the "Outdoor unit silent mode" can be activated only if the 'silent' command is selected on ALL indoor units.

In case "Priority room setting " is active, the "Outdoor unit silent mode" can be activated merely by selecting the 'silent' command on the indoor unit in the room set as 'priority room'.

- c. **Night quiet mode** (only for cooling mode)

  It is possible to reduce outdoor unit sound level automatically by removing a jumper wire in the outdoor unit. This function only works in cooling mode.
  Night mode automatically starts when the outdoor temperature has dropped by 5°C (or more, depending on the setting) below the maximum temperature recorded during the day.
  (the function can be deactivated if the jumper wire is kept and reinstalled in the outdoor unit)



3. Wider operation range

In comparison to current Multi inverter units using R-22, the operation range has been extended as follows :

Cooling only: from -10°C (R-22= from 10°C only) to 46°C (R-22= to 43°C)
Heat pump:
- cooling mode from -10°C (R-22= from 21°C for 2MX52H & 3MX68H, from 10°C for 4MX80H) to 46°C (R-22= to 43°C)
- heating mode from -15°C (R-22= from -10°C) to 15°C (R-22 same)

4. Changes for installation and after sales service

PIPING LENGTHS

Cooling only		**58**		**75**		**90**	
		current	new	current	new	current	new
Piping length	Total		45		60	70	70
	Height difference		15		15	15	15
	Refrigerant charge	Chargeless					

PIPING LENGTHS

Heat pump		52		68		80	
		current	new	current	new	current	new
Piping length	Total	35	45	60	60	70	70
	Height difference	15	15	15	15	15	15
	Refrigerant charge	20m or more	20m or more	30m or more	30m or more	chargeless	40m or more

- Changed service access
  With the current units, both front and top cover must be removed to reach the PCB.
  With the new units, only the top panel needs to be removed to reach the PCB.

- Wiring changes:
  The transmission wiring was changed from : Red/White/Black for Phase/Transmission/Neutral to Black/White/Red for Neutral/Phase/Transmission.

- Multi inverter R-410A series are equipped with an automatic check and correction function for wiring errors (similar to the current R-22 Multi inverter units)

- Changes of indoor pipe diameters (see also chapter 3 indoors)
  The liquid pipe diameters of some indoor units are changed :
  - 35 class : from 12.7 to 9.5
  - 60 class : from 15.9 to 12.7

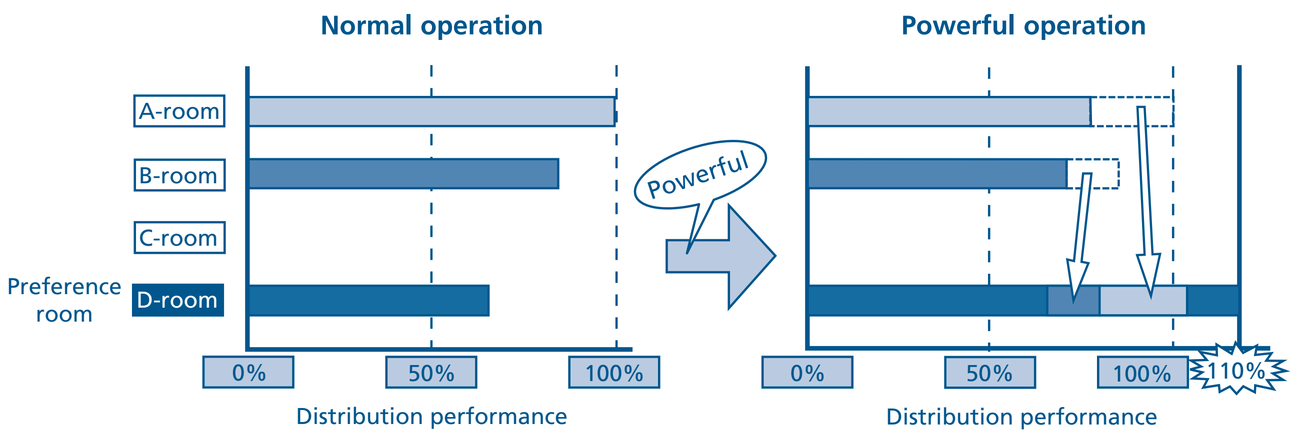
5. User friendly functions

With R-22 Multi inverter units, following functions were available only on 4MK90H and 4MX80H units. As a result of widespread demand, they are now available for all classes :

- Priority room setting

  It is possible to indicate a room as "priority room", which means that this indoor unit is the decisive factor in determining cooling or heating mode. The priority room must be set via a switch in the outdoor unit. Without this priority setting, the decision to switch from cooling to heating can come from any indoor unit, which is often confusing for customers.

  It is also possible to increase the power supplied from the outdoor unit to the "priority room" by pressing the "powerful button" on the indoor unit.



- Cooling / Heating mode lock (Heat pump models only)

  It is now possible to establish cooling or heating mode for 52 to 68 class heat pump models (already existing for the 80 class) via a switch on the outdoor unit. This is a useful feature for hotels or offices. Otherwise, the occupant in the "priority room" would determine the cooling or heating mode of the building — if no "priority room" is set, this can be determined from any room.

6. Improved durability

- The units are constructed in a way to prevent small animals (frogs, mice,...) from reaching the electrical box.
- The PCB is installed upside down in order to improve its anti corrosion characteristics.
- A rust proof steel sheet beneath the unit gives additional protection against corrosion.

SPECIFICATIONS

COOLING ONLY			4MK58AZVMB	4MK75AZVMB	4MK90AZVMB
Capacity	min.~nom.~max.	kW	1.4~5.8~6.8	1.4~7.5~8.6	1.9~9.0~9.6
COP			3.50	3.40	3.20
Sound level *1		dB(A)	46/43 (39*2)	48/45 (39*2)	48/45 (39*2)
Dimensions		HxWxD	735x936x300		910x900x320
Weight		kg	61	69	80
Total piping length		m	45	60	70
Amount of additional charge		g/m	charge less		
Operation range	from~to	°CDB	-10~46		

*1 Rated value: the value when using quiet functions
*2 Minimum value (when operating only 1 unit)

SPECIFICATIONS

HEAT PUMP			3MX52AZVMB	4MX68AZVMB	4MX80AZVMB
Capacity	cooling		1.4~5.2~6.1	1.4~6.8~7.3	1.9~8.0~ 9.2
(min.~nom.~max.)	heating		1.5~6.8~7.8	1.5~8.6~9.6	2.3~9.6~10.7
COP	cooling		3.20	3.20	3.30
	heating		3.80	3.70	4.10
Sound level *1	cooling	dB(A)	46/43 (39*2)	48/45 (39*2)	48/45 (39*2)
	heating	dB(A)	47/44 (39*2)	49/46 (39*2)	49/46 (39*2)
Dimensions		HxWxD	735x936x300		908x900x320
Weight		kg	61	69	80
Total piping length		m	45	60	70
Amount of additional charge		g/m	20 (20m or more)	20 (30m or more)	20 (40m or more)
Operation range (from~to)	cooling	°CDB	-10~46		
	heating	°CWB	-15~21		

*1 Rated value: the value when using quiet functions
*2 Minimum value (when operating only 1 unit)

ACCESSORIES

For the outdoor units :

ACCESSORIES

	5.8~7.5KW CLASS	9.0KW CLASS
Suction grille	KPW-945A4	
Drain plug	KKP937A4	KKP945A4

(For control systems and indoor unit accessories : see the indoor units.)



RX50-71AZVMB

2 RX50-71AZVMB

Pair, inverter controlled outdoor units

BACKGROUND

As well as new Multi inverter units operating on R-410A, Daikin will also launch Pair heat pump combinations using R-410A, in 50 to 71 class sizes.

MODEL RANGE

Class	Wall Mounted	Floor standing	Flexi type	Outdoor Unit
5.0kW	FTX50AZVMB	FVX50AZVMB	FLX50AZVMB	RX50AZVMB
6.0kW	FTX60AZVMB	-	-	RX60AZVMB
7.1kW	FTX71AZVMB	-	-	RX71AZVMB

FEATURES

1. **Energy saving via the latest Daikin technology**
   - Swing compressor
   - Reluctance DC motor
   - PAM control

2. **Quiet Operation**
   - Outdoor unit silent operation

3. **Wide operation range**
   Cooling from -10°C till 46°C, heating from -15°C till 15°C.

For more detailed information on features 1 and 2, please refer to the explanation in chapter 1 on Multi outdoor units.

SPECIFICATIONS

RX50AZVMB				FTX50AZVMB	FVX50AZVMB	FLX50AZVMB
Power supply				1~50Hz, 220-240V		
Nominal capacity	min~nom~max	cooling	kW	0.9~5.2~5.8	0.9~5.0~5.3	0.9~5.0~5.3
	min~nom~max	heating	kW	0.9~6.5~8.0	0.9~5.0~5.3	0.9~6.1~7.5
Dimensions		HxWxD	mm	735x825x300		
Sound pressure level		cooling	dB(A)	47 (40)		
		heating	dB(A)	48 (40)		
Sound power level			dB(A)	60		
Charge less piping length			m	10		
Max. piping length			m	30		

SPECIFICATIONS

RX60AZVMB				FTX60AZVMB
Power supply				1~50Hz, 220-240V
Nominal capacity	min~nom~max	cooling	kW	0.9~6.0~6.0
	min~nom~max	heating	kW	0.9~7.0~8.0
Dimensions		HxWxD	mm	735x825x300
Sound pressure level		cooling	dB(A)	49 (40)
		heating	dB(A)	49(40)
Sound power level			dB(A)	62
Chargeless piping length			m	10
Max. piping length			m	30

SPECIFICATIONS

RX71AZVMB				FTX71AZVMB
Power supply				1~50Hz, 220-240V
Nominal capacity	min~nom~max	cooling	kW	0.9~7.1~8.0
	min~nom~max	heating	kW	0.9~8.5~9.5
Dimensions		HxWxD	mm	735x825x300
Sound pressure level		cooling	dB(A)	52 (47)
		heating	dB(A)	52 (47)
Sound power level			dB(A)	65
Chargeless piping length			m	10
Max. piping length			m	30

Indoor sound pressure: H tap / L tap, (   ) refers to value at "silent tap"
Outdoor sound pressure: (   ) means value in the "Outdoor silent operation"

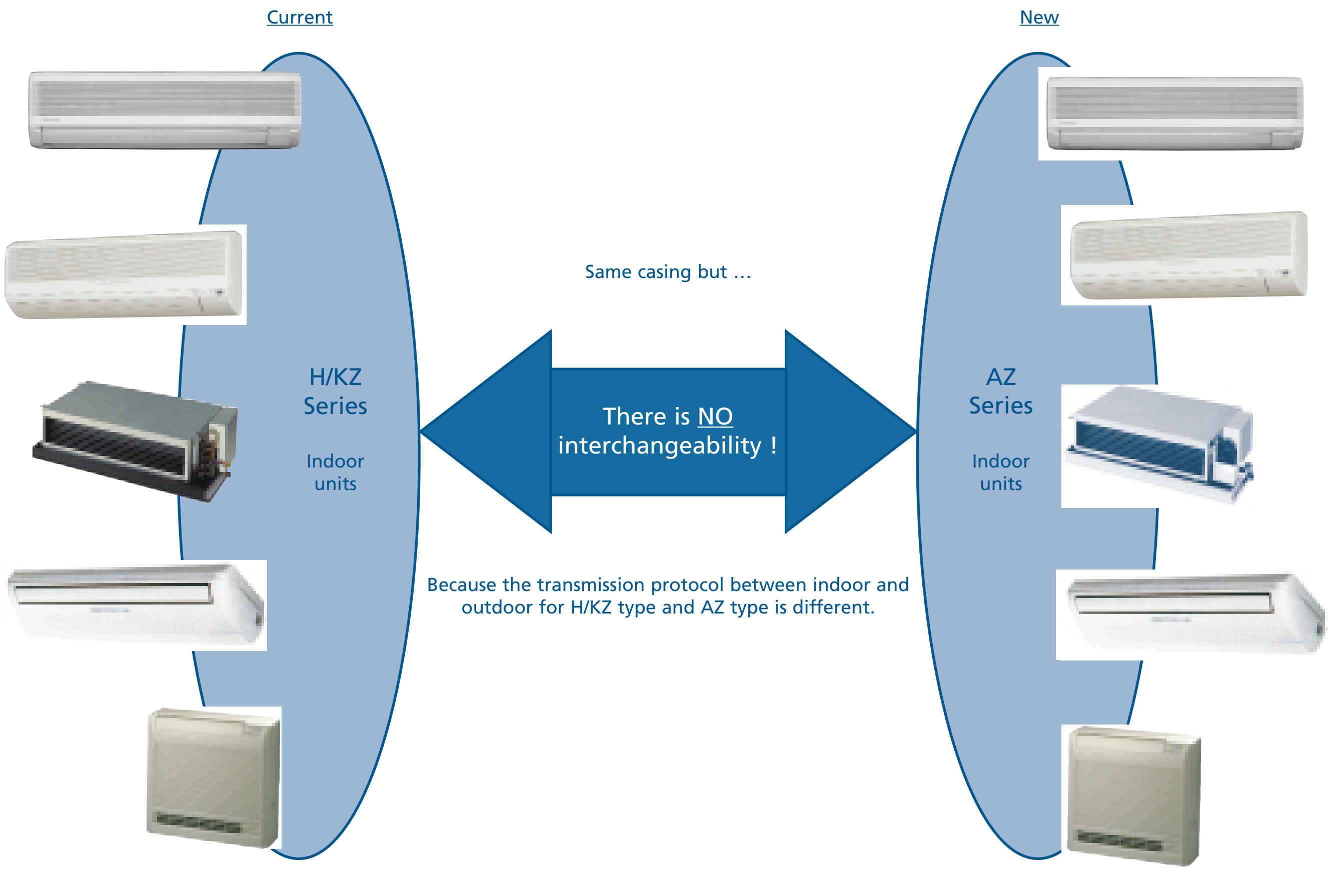
ACCESSORIES

There are no specific accessories for the outdoor units. For controllers and indoor unit accessories, please refer to chapter 3 - indoor units.

3 INDOOR UNITS

BACKGROUND

The new Multi and Pair inverter units on R-410A, described in chapter 1 and 2, utilise a new method of communication. As a result, dedicated indoor units, not interchangeable with the current inverter indoor units, must be used, not interchangeable even with current R-410A inverter such as FTKD25KZ.



These new indoor units are equipped with 'QUIET FUNCTIONS'.
There are 3 types of quiet functions:

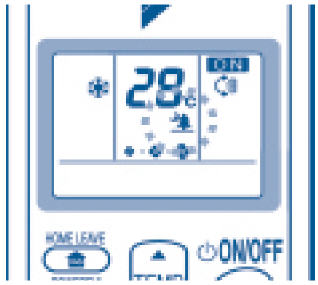
QUIET FUNCTIONS

	FUNCTION	EFFECTS*1 (dB(A))	NOTE
INDOOR	Indoor unit silent operation	H:37, L:30 -> LL: (27)	Air flow: Ultra low blow set via remote controller
OUTDOOR	Outdoor unit silent operation (For more information, see chapter 1: outdoor units)	48 -> (45)*2	Air flow: Low blow set via remote controller
	NEW Night quiet mode (For more information, see chapter 1: outdoor units)	48 -> (45)*2	Requires initial setting - cooling operation only

*1 If using outdoor unit "4MK90AZVMB", indoor unit "FTK25AZVMB"
*2 Minimum 39dB(A) (when operating only 1 unit)
( ) Target value

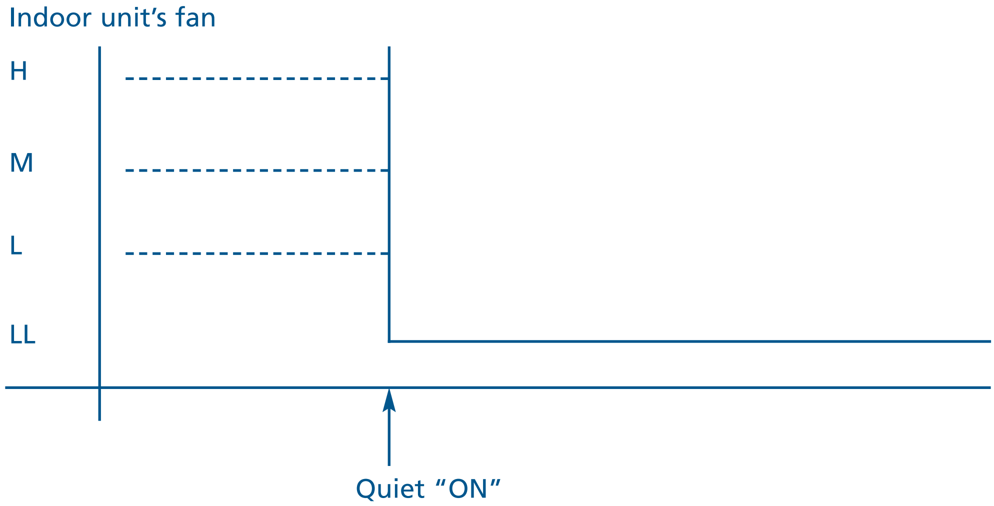
INDOOR UNIT SILENT OPERATION :

When air flow is set to “Quiet” via remote controller, the operating sound of the indoor unit is reduced by 3dB(A). This function is useful when studying or sleeping.



Air flow setting button





NOTE

When operating in “Quiet” or “Ultra low” mode both operating noise and cooling/heating capacity are reduced.

MODEL RANGE & COMPATIBILITY OVERVIEW

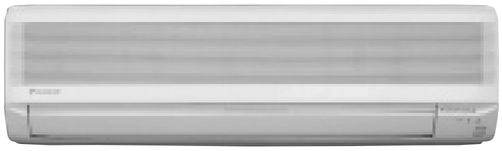
INTERCHANGEABILITY

		INVERTER MULTI			INVERTER SPLIT			
		CURRENT		NEW	CURRENT			NEW
		2~4MK(X)H	RMX140J(Z)	3~4MK(X)AZ	RK(X)25/35J	RK(X)25/35KZ	RXD50/60/71J	RX50/60/71AZ
Wall mounted unit	FTK(X)25/35J	O	O	X	O	X	X	X
	FTK(X)D25/35KZ	O	O	X	X	O	X	X
	FTK(X)D50/60/71J	O	O	X	X	X	O	X
	FTK(X)25/35AZ	X	X	O	X	X	X	X
	FTK(X)50/60/71AZ	X	X	O	X	X	X	O (H/P only)
Flexi type unit	FLX25/35H	O	O	X	X	X	X	x
	FLX50/60J	O	O	X	X	X	O	x
	FLK(X)25/35/50/60AZ	X	X	O	X	X	X	O (FLX50 only)
Concealed ceiling unit	CDK(X)25/35/50/60HA	O	O	X	X	X	X	x
	CDK(X)25/35/50/60AZ	X	X	O	X	X	X	x
Floor standing unit	FVK(X)25/35KZ	O	O	X	X	X	X	x
	FVXT40/50G	X	X	X	X	X	X	x
	FVX25/35/50AZ	X	X	O	X	X	X	O (FVX50 only)

O = possible, X = not possible



FTK/FTX25,35AZVMB



FTX50-71AZVMB

FTK/FTX25-71AZVMB

Wall mounted, inverter controlled unit

FEATURES

FTK/FTX25-35AZ

- Inverter powerful mode
- Movement sensor
- NEW Home leave operation
- NEW Outdoor unit silent operation
- NEW Indoor unit silent operation
- NEW Photocatalytic deodorising filter
- Air purification filter
- Washable grille
- Night set mode
- Power air flow dual flap (auto swing: up & down)
- Wide angle louvers
- 24 hour ON/OFF timer
- Interface adapter for DIII-net (optional)

FTK/FTX50-60-71AZ

- Inverter powerful mode
- Home leave operation
- Outdoor unit silent operation
- NEW Indoor unit silent operation
- NEW Photocatalytic deodorising filter
- Air purification filter
- Washable grille
- Night set mode
- Power air flow flap (auto swing: up & down)
- Wide angle louvers (auto swing: right & left)
- 24 hour ON/OFF timer
- Interface adapter for DIII-net (optional)

SPECIFICATIONS

COOLING ONLY			FTK25AZVMB	FTK35AZVMB	FTK50AZVMB	FTK60AZVMB	
HEAT PUMP			FTX25AZVMB	FTX35AZVMB	FTX50AZVMB	FTX60AZVMB	FTX71AZVMB
Capacity/class		kW	2.5	3.5	5.0	6.0	7.1
Dimensions		mm	273x784x185		298x1,050x190		
Weight		kg	7.5		12		
Sound pressure level	Cooling	dB(A)	38/25/22	39/26/23	44/35/32	45/37/35	46/37/34
H/L/LL	Heating	dB(A)	38/25/22	39/26/23	42/32/29	44/34/31	46/34/31
Piping connection	Liquid	mm	Ø6.4	Ø6.4	Ø6.4	Ø6.4	Ø9.5
	Gas	mm	Ø9.5	Ø9.5	Ø12.7	Ø12.7	Ø15.9
	Drain	mm	Ø18.0	Ø18.0	Ø18.0	Ø18.0	Ø18.0

ACCESSORIES

CONTROL SYSTEMS

Wiring adapter for time clock (normal open contact/normal open pulse contact)	KRP413A1S
Centralised control board - up to 5 rooms (1)	KRC72
Central remote control (1)	DCS302B51
Unified ON/OFF control (1)	DCS301B51
Schedule timer (1)	DCT301B51
Interface adapter (DIII-net)	KRP928A1S

(1) Wiring adapter is also required for each indoor unit

An infrared remote control will be standard provided with the indoor unit.

OTHER ACCESSORIES

	FTK/FTX25-35AZ	FTK/FTX50-60-71AZ
Photocatalytic deodorising filter, with frame	-	KAZ917B41
Photocatalytic deodorising filter, without frame	KAZ962A42	KAZ917B42
Combined air purification filter + photocatalytic deodorising filter	KAZ926B41	-
Air purification filter with frame	-	KAF925B41
Air purification filter without frame	KAF926B42	KAF925B42
Anti theft protection for remote controller	KKF917A4	KKF917A4



FLK/FLX25-60AZVMB



FLK/FLX25-60AZVMB

FLK/FLX25-60AZVMB

Flexi type, inverter controlled unit

FEATURES

- Inverter powerful mode
- Home leave operation
- NEW Outdoor unit silent operation
- NEW Indoor unit silent operation
- NEW Photocatalytic deodorising filter
- Air purification filter
- Night set mode
- Wide angle louvers (auto swing: right & left)
- 24 hour ON/OFF timer
- Interface adapter for DIII-net (optional)

SPECIFICATIONS

COOLING ONLY			FLK25AZVMB	FLK35AZVMB	FLK50AZVMB	FLK60AZVMB
HEAT PUMP			FLX25AZVMB	FLX35AZVMB	FLX50AZVMB	FLX60AZVMB
Capacity/class		kW	2.5	3.5	5.0	6.0
Dimensions		mm	490x1,050x200			
Weight		kg	16		17	
Sound pressure level	Cooling	dB(A)	37/31/28	38/32/29	47/39/36	48/41/38
H/L/LL	Heating	dB(A)	37/31/28	39/33/30	46/35/33	47/37/34
Piping connection	Liquid	mm	Ø6.4	Ø6.4	Ø6.4	Ø6.4
	Gas	mm	Ø9.5	Ø9.5	Ø12.7	Ø12.7
	Drain	mm	Ø18.0	Ø18.0	Ø18.0	Ø18.0

ACCESSORIES

CONTROL SYSTEMS	
Wiring adapter for time clock (normal open contact/normal open pulse contact)	KRP413A1S
Centralised control board - up to 5 rooms (1)	KRC72
Central remote control (1)	DCS302B51
Unified ON/OFF control (1)	DCS301B51
Schedule timer (1)	DCT301B51
Interface adapter (DIII-net)	KRP928A1S

(1) Wiring adapter is also required for each indoor unit

An infrared remote control will be standard provided with the indoor unit.

OTHER ACCESSORIES	
	FLK/FLX25-35-50-60AZ
NEW Photocatalytic deodorising filter with frame	KAZ917B41
NEW Photocatalytic deodorising filter without frame	KAZ917B42
Air purification filter with frame	KAF925B41
Air purification filter without frame	KAF925B42
Anti theft protection for remote controller	KKF917A4



FVX25-50AZVMB

FVX25-50AZVMB

Floor standing, inverter controlled unit

FEATURES

- Inverter powerful mode
- Home leave-operation
- NEW Outdoor unit silent operation
- NEW Indoor unit silent operation
- NEW Photocatalytic deodorising filter
- Air purification filter
- Night set mode
- Wide angle louvers (auto swing: right & left)
- 24 hour ON/OFF timer
- Interface adapter for DIII-net (optional)

SPECIFICATIONS

HEAT PUMP			FVX25AZVMB	FVX35AZVMB	FVX50AZVMB
Capacity/class		kW	2.5	3.5	5.0
Dimensions		mm	660x650x195		
Weight		kg	13		
Sound pressure level	Cooling	dB(A)	38/26/23	39/26/23	44/36/33
H/L/LL	Heating	dB(A)	38/26	39/26	45/36
Piping connection	Liquid	mm	Ø6.4	Ø6.4	Ø6.4
	Gas	mm	Ø9.5	Ø9.5	Ø12.7
	Drain	mm	Ø20.0	Ø20.0	Ø20.0

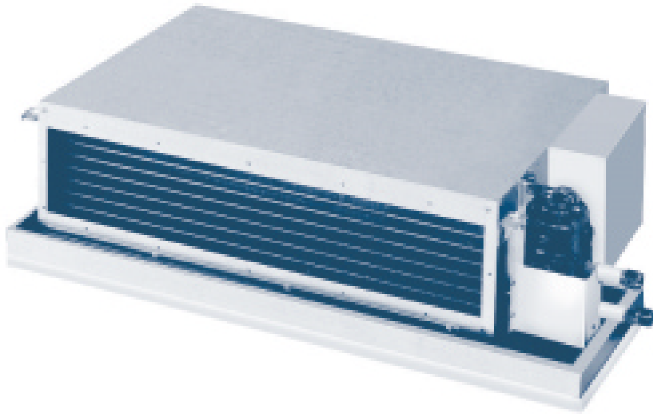
ACCESSORIES

CONTROL SYSTEMS	
Wiring adapter for time clock (normal open contact/normal open pulse contact)	KRP413A1S
Centralised control board - up to 5 rooms (1)	KRC72
Central remote control (1)	DCS302B51
Unified ON/OFF control (1)	DCS301B51
Schedule timer (1)	DCT301B51
Interface adapter (DIII-net)	KRP928A1S

(1) Wiring adapter is also required for each indoor unit

An infrared remote control will be standard provided with the indoor unit.

OTHER ACCESSORIES	FVX25-35-50AZ
NEW Photocatalytic deodorising filter with frame	KAZ917B41
NEW Photocatalytic deodorising filter without frame	KAZ917B42
Air purification filter with frame	KAF925B41
Air purification filter without frame	KAF925B42
Anti theft protection for remote controller	KKF917A4



CDK/CDX25-60AZVMB

CDK/CDX25-60AZVMB

Concealed ceiling, inverter controlled unit

FEATURES

- Inverter powerful mode
- NEW Home leave operation
- NEW Outdoor unit silent operation
- 24 hour ON/OFF timer
- Interface adapter for DIII-net (optional)

SPECIFICATIONS

COOLING ONLY			CDK25AZVMB	CDK35AZVMB	CDK50AZVMB	CDK60AZVMB
HEAT PUMP			CDX25AZVMB	CDX35AZVMB	CDX50AZVMB	CDX60AZVMB
Capacity/class		kW	2.5	3.5	5.0	6.0
Dimensions		mm	260x900x580			
Weight		kg	23		24	
Sound pressure level	Cooling	dB(A)	39/36	39/36	42/39	44/41
H/L	Heating	dB(A)	40/39	40/39	42/38	44/40
Piping connection	Liquid		Ø6.4	Ø6.4	Ø6.4	Ø6.4
	Gas (CDK)	mm	Ø9.5	Ø9.5	Ø12.7	Ø12.7
	Gas (CDX)	mm	Ø9.5	Ø9.5	Ø12.7	Ø15.9
	Drain		Ø27.2	Ø27.2	Ø27.2	Ø27.2
External static pressure		Pa	24	24	20	30

ACCESSORIES

CONTROL SYSTEMS	
Wiring adapter for time clock (normal open contact/normal open pulse contact)	KRP413A1S
Centralised control board - up to 5 rooms (1)	KRC72
Central remote control (1)	DCS302B51
Unified ON/OFF control (1)	DCS301B51
Schedule timer (1)	DCT301B51
Interface adapter (DIII-net)	KRP928A1S

(1) Wiring adapter is also required for each indoor unit

An infrared remote control will be standard supplied with the indoor unit.

OTHER ACCESSORIES	
Anti theft protection for remote controller	KKF917A4
Suction grille	KDGF19A45



RZP71DV1



RZP100,125DV1

4 RZP71-125DV1

Sky Air Super Inverter

BACKGROUND

After the success of the inverter in the residential market, Daikin has decided to introduce the first Sky Air inverter in Europe for the light commercial market (shops, small offices). This will enable Daikin to take the lead in promoting the need for energy preservation throughout the European light commercial sector.

Initially the range will be marketed in the UK, France, Italy, Germany and Spain, other countries will follow. Payback time, comfort, quality and features will justify the price premium.

The ozone friendly Super inverter heat pump and reluctant DC compressor represent the top end of the current Sky Air range. This latest introduction strengthens our image as market leader and distinguishes Daikin from its competitors.

MODEL RANGE

	OUTDOOR UNIT	INDOOR UNITS				
	RZP...DV1	FHYCP...B7V1	FHYBP...B7V1	FHYP...B7V1	FUYP...BV17	FAYP...BV1
PAIR	71	•	•	•	•	•
	100	•	•	•	•	•
	125	•	•	•	•	
TWIN	100 (2 x 45)	•	•	•		
	125 (2 x 60)	•	•	•		

FEATURES

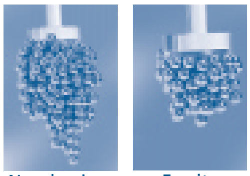
- **ENERGY SAVING VIA:**

1. Reluctance DC compressor
High energy efficiency in the most frequently used mid-to-low settings keeps annual electricity costs low.

The RZP-unit is the first commercial grade air conditioner with powerful neodymium magnets using reluctance torque

DOUBLE TORQUE IMPROVES ENERGY EFFICIENCY
The combination of magnetic torque from powerful neodymium magnets and reluctance torque (applied to an air conditioner's compressor for the first time) generates more power using less electricity.

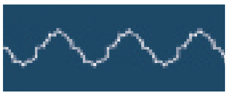
Secret to raising energy-efficiency!
Powerful magnets



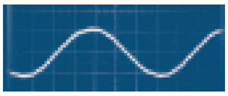
Neodymium magnet is much more powerful than the widely used ferrite magnets.

2. Sine Wave DC inverter
Generates smooth inverter waveforms to increase efficiency

Rectangular wave



Sine wave PWM*



*Pulse Width Modulation

3. Heat divide type heat exchanger
Improved capability of the heat exchanger by U type wide form and waffle fin adoption. This new technique results in an improved COP

4. New Super Cooling e-bridge circuit
An increase in evaporation capacity stems from the newly developed refrigeration circuit, known as the SCe-bridge circuit, which adds super cooling prior to expansion procedure. By adopting this circuit, the COPs in both cooling and heating have been drastically improved.

5. DC fan motor
The DC fan motor offers substantial improvements in operating efficiency compared to conventional AC motors, especially during low speed operation.

6. Compressor linked fan control
Maintains maximum COP

7. Smooth air flow mechanism:
- Hybrid aerofoil fan:
  A newly designed fan, applying air flow analyses techniques developed by NASA, creates smooth air flow, raising the COP and reducing the sound level.
- High flared bell mouth
- Super aero grille
  The spiral shaped ribs are aligned with the direction of discharge flow to minimise turbulence and reduce noise

8. Predicted mean vote (PMV) control
At equivalent room temperatures an occupant can feel hot in the summer and cold in the fall and spring. The PMV control function senses conditions such as outdoor temperature, internal heat sources and the levels of radiant heat. It then maintains room temperature at the most comfortable level and maximises energy saving characteristics.

- COMFORTABLE

1. Comfortable control by inverter
During start up, full power is used to achieve the room set point temperature quickly. The capacity is then adjusted according to the outdoor temperature and indoor load varations to achieve fine control of the room temperature setting. Non inverter type air conditioners switch on and off repeatedly, causing large fluctuations in room temperature.

2. Reduced sound level via:

- **Hybrid aerofoil fan - Super aero grille**
  (explanation cf "Smooth air flow mechanism")

- **Low-noise compressor**
  Smooth rotation and minimal vibrations ensure quiet operation

- **Night quiet mode**
  Reduces normal operating noise level by trimming compressor and fan rotation rate during low load night time operation.

3. Expansion of the operation range
- Heating operation ranges down to -15°CWB
- Cooling operation ranges up to 50°CDB

4. Maximum piping length up till 70m (for 100 & 125 model)

SPECIFICATIONS

			RZP71DV1	RZP100DV1	RZP125DV1
Power supply			1 phase, 220-240V, 50Hz		
Cooling capacity/ Max. cooling capacity		kW	6.9(3.2-7.8)	9.7(4.9-11.0)	12.1(5.8-13.8)
		Btu/h	23,600	33,100	41,300
			(10,900-26,600)	(16,700-37,600)	(19,800-47,100)
		kcal/h	5,900(2,800-6,700)	8,300(4,200-9,500)	10,400(5,000-11,900)
Heating capacity/ Max. heating capacity		kW	7.8(3.4-8.8)	11.0(5.5-12.6)	13.7(5.9-15.9)
		Btu/h	26,600	37,600	46,800
			(11,600-30,000)	(18,800-43,100)	(20,100-54,300)
		kcal/h	6,700(2,900-7,600)	9,500(4,700-10,800)	11,800(5,100-13,700)
Average COP of Cool/Heat			TBC	TBC	TBC
Dimensions (HxWxD)		mm	905x900x320	1,435x900x320	1,435x900x320
Weight		kg	71	119	119
Max. ref. piping length		m	50	70	70
Charged for		m	30	30	30
Operation sound (C/H)		dBA	48/50	50/52	51/53
Night quiet mode		dBA	45	45	45
MFA( ) for FDYP (Australia)		A	20	30(41)	30(40)
Operation range	cooling	°CDB	-5~50	-5~50	-5~50
	heating	°CWB	-15~16	-15~16	-15~16



RMX140JZVMB

5 RMX140JZVMB

Super Multi Plus, Inverter controlled - heat pump

BACKGROUND

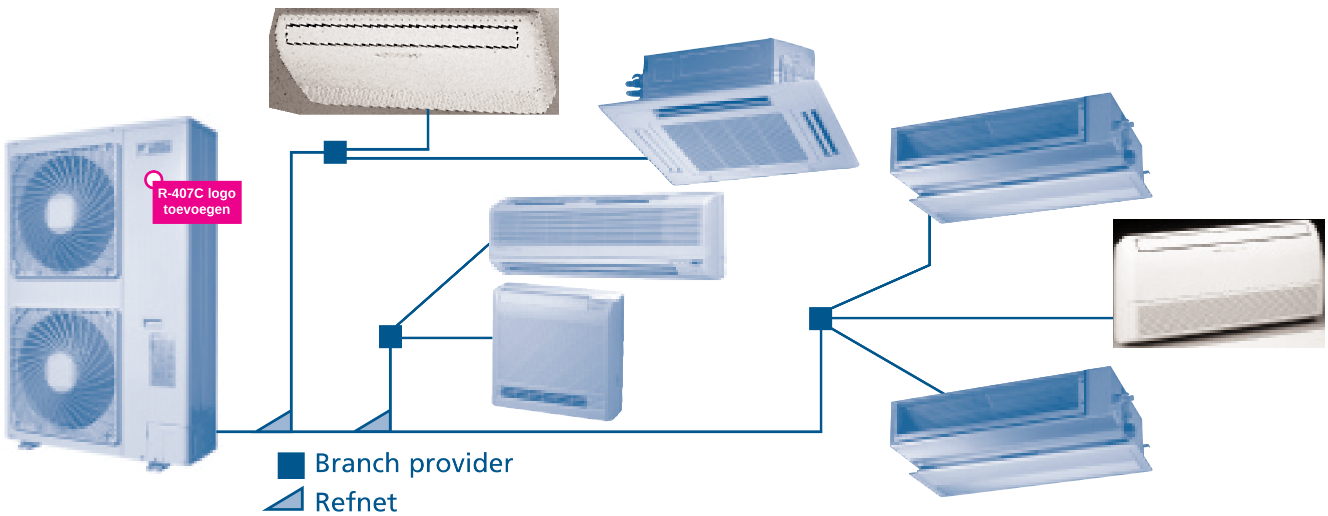
After the successful introduction of the RMX140JVMB, Daikin has now launched its RMX140JZVMB with R-407C refrigerant.

MODEL RANGE

OUTDOOR UNIT	
	MODEL NAME
Heat pump	RMX140JZVMB

CONNECTABLE INDOOR UNITS

25 class	FTX25JAV1NB	FTXD25KZV1B	FVX25KZV1B	FLX25HV1NB	CDX25HAV1NB	-	-
35 class	FTX35JAV1NB	FTXD35KZV1B	FVX35KZV1B	FLX35HV1NB	CDX35HAV1NB	FHYB35FK7V1	FHYC35B7V1
45 class	-	-	-	-	-	FHYB45FK7V1	FHYC45B7V1
50 class	FTXD50JAV1NB	-	-	FLX50JV1	CDX50HAV1NB	-	-
60 class	FTXD60JAV1NB	-	-	FLX60JV1	CDX60HAV1NB	FHYB60FK7V1	FHYC60B7V1
71 class	FTXD71JAV1NB	-	-	-	-	FHYB71FK7V1	FHYC71B7V1



IT IS POSSIBLE TO CONNECT UP TO 7 INDOOR UNITS TO A SINGLE OUTDOOR UNIT

FEATURES

- Size of connectable indoor units extended to the **71 class**
- This new unit incorporates the advanced Daikin **PAM inverter** technology.
  The application of this unique facility results in:
    - improved cooling and heating performance
    - reduced power consumption with 30% compared to non inverter systems
    - minimum operating sound levels
    - low start up current
- PAM Inverter controlled fan motors
- The use of a **BP-unit** (Branch Provider), containing the expansion valves, results in the following features:
    - quiet operation, due to the possibility of remote installation
    - less piping and wiring is needed in comparison to a standard multi-system
    - longer piping length possible
    - easy installation
    - for 2 rooms: BPMK928B42
      for 3 rooms: BPMK928B43
- **MIO-control** (Multiple Input and Output) is a very innovative method to simultaneously output multiple signals based on multiple pieces of input information. This allows the air conditioner to respond quickly to changes in room conditions and hereby create a comfortable ambience.
- Chargeless piping up to 115m

SPECIFICATIONS

RMX-JZ				
HEAT PUMP				**RMX140JZVMB**
Capacity	cooling		kW	14.5
	heating		kW	16.5
Nominal input	cooling		kW	5.0
	heating		kW	6.05
Dimensions	HxWxD		mm	1,345x880x320
Weight			kg	136
Sound pressure level	cooling		dB(A)	53
	heating		dB(A)	53
Sound power level			dB(A)	*
Compressor			type	hermetically sealed scroll type (oval discharge)
Refrigerant charge	R-407C		kg	9.9
Max. piping length	for 1 room		mm	15
	for all rooms		mm	115
Max. level difference	between indoors and outdoors		mm	30
	between indoors and BP units		mm	15
Standard operation range	cooling	from~to	°CDB	-5~46
	heating	from~to	°CWB	-15~15.5

* Sound power level was not available at the time of printing

BP-UNIT

		BPMK928B42	**BPMK928B43**
Connectable indoor units		1~2	1~3
Nominal input	W	10	
Dimensions	mm	223x400x272	
Weight	kg	7	8

ACCESSORIES

Central drain plug		KKPJ5F180
Fixture for preventing overturning		KPTJ60F160
Wire fixture for preventing overturning		K-KBPA1
Auxiliary piping	for front / side	KHFJ5F180F
	for rear	KHFJ5F180B
Refnet joint		KHR928A4T7

Note: More information about this outdoor unit can be found in the Super Multi Plus catalogue (EPCE01-02) or on the Extranet.

6 COMBINATION TABLES

R-22 COOLING ONLY		FT18GV1B9	FT18JV1B	AN25AV1B	AN25AV1B9	FT25GV1B9	FT25JV1B	AN35AV1B	AN35AV1B9	FT35GV1B9	FT35JV1B	FT40GV1B	FT45G(A)V1B	FT60G(A)V1B	FV25D7V1 (2)	FV35D7V1 (2)	FV45D7V1 (2)	FV60D7V1 (2)	FL25G(A)V1NB	FL35G(A)V1NB	FL40G(A)V1NB	FL45G(A)V1NB	FHC35FJ7V1	FHC35BJV1	FHC35B7V1	FHYC35FJ7V1	FHYC35BJV1	FHYC35B7V1	FHC45FJ7V1	FHC45BJV1	FHC45B7V1	FHYC45FJ7V1	FHYC45BJV1	FHYC45B7V1	FHC60FJ7V1	FHC60BJV1	FHC60B7V1	FHYC60FJ7V1	FHYC60BJV1	FHYC60B7V1	FHYC71FJ7V1	FHYC71BJV1	FHYC71B7V1	FHYC100FJ7V1	FHYC100BJV1	FHYC100B7V1	FHYC125FJ7V1	FHYC125BJV1	FHYC125B7V1
RE18G(A)7V1	RE18GV1B	P	P																																														
AR25AV1B				P																																													
AR25AV1B9					P																																												
RE25G(A)7V1	RE25GV1B (2)					P	P												P																														
R25DB(DC)7V11	R25DBV11B					P	P								P				P																														
AR35AV1B								P																																									
AR35AV1B9									P																																								
RE35G(A)7V1	RE35GV1B (2)									P	P									P																													
R35DB(DC)7V11	R35DBV11B									P	P					P				P			P	P	P																								
RE40G(A)7V1	RE40GV1B											P									P																												
R45DB(DC)7V11/W11	R45DBV11B,-W11B												P				P					P							P	P	P																		
R60F7V1/W1	R60FA7V1/W1													P				P																	P	P	P												
R71FJ7V1/W1																										T	T	T													P	P	P						
R71B7V1/W1																										T	T	T													P	P	P						
R100FJ7V1/W1																										T	T	T				T	T	T				T	T	T	T	T	T	P	P	P			
R100B7V1/W1																										T	T	T				T	T	T				T	T	T	T	T	T	P	P	P			
R125FJ7W1																																T	T	T				T	T	T	T	T	T				P	P	P
R125B7W1																											T	T				T	T	T				T	T	T	T	T	T				P	P	P
R200F7W1																											T	T				T	T	T				T	T	T	T	T	T	T	T	T	T	T	T
R250F7W1																																T	T	T				T	T	T	T	T	T	T	T	T	T	T	T
MAE25G(A)7V1		M	M																M																														
AMA32A7V1N9					M				M																																								
MAE32G(A)7V1		M	M	M				M		M	M								M	M																													
MA45D(A)7V1		M	M			M	M			M	M	M			M	M			M	M			M	M	M																								
MA56DA(DB)7V1/V11/W1/W11						M	M			M	M	M	M		M	M	M		M	M		M	M	M	M				M	M	M																		
MA90CK7V1/W1/W11	MA90CKV1/Y1					M	M			M	M	M	M	M	M	M	M	M	M	M		M	M	M	M				M	M	M				M	M	M												

R-22 COOLING ONLY		FH35FJ7V1	FHY35FJ7V1	FH35BJV1	FHY35BJV1	FH45FJ7V1	FHY45FJ7V1	FH45BJV1	FHY45BJV1	FH60FJ7V1	FHY60FJ7V1	FH60BJV1	FHY60BJV1	FH71FJ7V1	FHY71BJV1	FH100FJ7V1	FHY100BJV1	FH125FJ7V1	FHY125BJV1	FHK35FJV18	FHYK35FJV18	FHK45FJV18	FHYK45FJV18	FHK60FJV18	FHYK60FJV18	FHYK71FJV18	FHEB18B(A)7V1	FHEB25B7V1	FHEB25GZ7V1	FHB35FJ(FK)7V1	FHYB35FJ(FK)7V1	FHB45FJ(FK)7V1	FHYB45FJ(FK)7V1	FHB60FJ(FK)7V1	FHYB60FJ(FK)7V1	FHYB71FK7V1	FHYB100FK7V1	FHYB125FK7V1	FUY71FJV1	FUY100FJV1	FUY125FJV1	FAY71FJV19	FAY100FJV19	FDY125F7V1	FDY125B7V1	FDY200F7V1	FDY200B7V1	FDY250F7V1	FDY250B7V1
RE18G(A)7V1	RE18GV1B																										P																						
AR25AV1B																																																	
AR25AV1B9																																																	
RE25G(A)7V1	RE25GV1B (2)																											P	P																				
R25DB(DC)7V11	R25DBV11B																											P	P																				
AR35AV1B																																																	
AR35AV1B9																																																	
RE35G(A)7V1	RE35GV1B (2)																																																
R35DB(DC)7V11	R35DBV11B	P		P																P										P																			
RE40G(A)7V1	RE40GV1B																																																
R45DB(DC)7V11/W11	R45DBV11B,-W11B					P		P														P										P																	
R60F7V1/W1	R60FA7V1/W1									P		P												P										P															
R71FJ7V1/W1			T		T									P	P						T					P					T					P			P			P							
R71B7V1/W1			T		T									P	P						T					P					T					P			P			P							
R100FJ7V1/W1			T		T		T		T		T		T	T	T	P	P				T		T		T	T					T		T		T	T	P		T	P		T	P						
R100B7V1/W1			T		T		T		T		T		T	T	T	P	P				T		T		T	T					T		T		T	T	P		T	P		T	P						
R125FJ7W1							T		T		T		T	T	T			P	P				T		T	T							T		T	T		P	T		P	T		P	P				
R125B7W1					T		T		T		T		T	T	T			P	P		T		T		T	T					T		T		T	T		P	T		P	T		P	P				
R200F7W1					T		T		T		T		T	T	T	T	T	T	T		T		T		T	T					T		T		T	T	T	T	T	T	T	T	T	T	T	P	P		
R250F7W1							T		T		T		T	T	T	T	T	T	T				T		T	T							T		T	T	T	T	T	T	T	T	T	T	T			P	P
MAE25G(A)7V1																											M																						
AMA32A7V1N9																																																	
MAE32G(A)7V1																											M																						
MA45D(A)7V1		M		M																M								M	M	M																			
MA56DA(DB)7V1/V11/W1/W11		M		M		M		M												M		M						M	M	M		M																	
MA90CK7V1/W1/W11	MA90CKV1/Y1	M		M		M		M		M		M								M		M		M				M	M	M		M		M															

R-22, INVERTER CONTROLLED COOLING ONLY

	FTK25HV1NB	FTK25J(A)V1NB	FTK35HV1NB	FTK35J(A)V1NB	FTK50HV1NB	FTK60HV1NB	CDK25H(A)V1NB(8)	CDK35H(A)V1NB(8)	CDK50H(A)V1NB(8)	CDK60H(A)V1NB(8)	FVK25KZV1B (**)	FVK35KZV1B (**)	FTKD25KZV1B (***)	FTKD35KZV1B (***)
RK25HV1NB	P													
RK25JV1NB(9)		P												
RK35HV1NB			P											
RK35JV1NB(9)				P										
4MK90HV1NB	M	M	M	M	M	M	M	M	M	M	M	M	M	M

R-407C COOLING ONLY

	FT25GZV1NB	FT25JZV1NB	FT35GZV1NB	FT35JZV1NB	FT45G(A)ZV1NB	FT60GZV1NB	FL25GZV1NB	FL35GZV1NB	FL45GZV1NB	FHC35GZ7V1	FHC35BZV1	FHC35BZ7V1	FHYC35KZV1	FHYC35BZV1	FHYC35BZ7V1	FHYCP35B7V1	FHC45GZ7V1	FHC45BZV1	FHC45BZ7V1	FHYC45KZV1	FHYC45BZV1	FHYC45BZ7V1	FHYCP45B7V1	FHC60BZ7V1	FHYCP60B7V1	FHYC71KZV1	FHYC71BZV1	FHYCP71B7V1	FHYC100KZV1	FHYC100BZV1	FHYCP100B7V1	FHYC125KZV1	FHYC125BZV1	FHYCP125B7V1
R25EZ7V11 R25EAZ7V1 R25GZ7V11	P	P					P																											
R35EZ7V11 R35EAZ7V11 R35GZ7V11			P	P				P		P	P	P																						
R45E(A)Z7V11/W11 R45GZ7V11/W11					P				P								P	P	P															
R60GZ7W1						P																		P										
R71GZ7V1/W1/T1													T	T	T											P	P							
RP71B7V1/W1/T1																T												P						
R100GZ7V1/W1/T1													T	T	T					T	T	T				T	T		P	P				
RP100B7V1/W1/T1																T							T		T			T			P			
R125GZ7W1/T1													T	T	T					T	T	T				T	T					P	P	
RP125B7W1/T1																T							T		T			T						P
RP200B7W1																T							T		T			T			T			T
RP250B7W1																							T		T			T			T			T
MA56GZ7W11	M	M	M	M	M		M	M	M	M	M	M					M	M	M															
MA90GZ7W11	M	M	M	M	M	M	M	M	M	M	M	M					M	M	M					M										

R-407C COOLING ONLY

	FH35GZ7V1	FHY35GZ7V1	FH35BZV1	FHYP35BV1	FH45GZ7V1	FHY45GZ7V1	FH45BZV1	FHYP45BV1	FH60BZV1	FHYP60BV1	FH71GZ7V1	FHYP71BV1	FH100GZ7V1	FHYP100BV1	FH125GZ7V1	FHYP125BV1	FHK35BZV1	FHYKP35BV1	FHK45BZV1	FHYKP45BV1	FHK60BZV1	FHYKP60BV1	FHYKP71BV1	FHEB25GZ7V1	FHB35GZ7V1	FHYB35GZ7V1	FHYBP35B7V1	FHB45GZ7V1	FHYB45GZ7V1	FHYBP45B7V1	FHYBP60B7V1	FHYB71GZ7V1	FHYBP71B7V1	FHYB100GZ7V1	FHYBP100B7V1	FHYB125GZ7V1	FHYBP125B7V1	FAYP71BV1	FAYP100BV1	FUYP71BV1	FUYP100BV1	FUYP125BV1	FDYP125B7V1	FDYP200B7V1	FDYP250B7V1
R25EZ7V11 R25EAZ7V1 R25GZ7V11																								P																					
R35EZ7V11 R35EAZ7V11 R35GZ7V11	P		P														P								P																				
R45E(A)Z7V11/W11 R45GZ7V11/W11					P		P												P									P																	
R60GZ7W1									P												P																								
R71GZ7V1/W1/T1		T									P															T						P													
RP71B7V1/W1/T1				T								P						T					P				T						P					P		P					
R100GZ7V1/W1/T1		T				T					T		P													T			T			T		P											
RP100B7V1/W1/T1				T				T		T		T		P				T		T		T	T				T			T	T		T		P			T	P	T	P				
R125GZ7W1/T1		T				T					T				P											T			T			T				P									
RP125B7W1/T1				T				T		T		T				P		T		T		T	T				T			T	T		T				P	T		T		P	P		
RP200B7W1				T				T		T		T				T		T		T		T	T				T			T	T		T		T		T	T	T	T	T	T	T	P	
RP250B7W1								T		T		T				T		T		T		T	T							T	T		T		T		T	T	T	T	T	T	T		P
MA56GZ7W11	M		M		M		M										M		M					M	M			M																	
MA90GZ7W11	M		M		M		M		M								M		M		M			M	M			M																	

R-407C, INVERTER CONTROLLED COOLING ONLY

	FTKD25KZV1B	FTK25AZVMB	FTKD35KZV1B	FTK35AZVMB	FTK50AZVMB	FTK60AZVMB	CDK25AZVMB	CDK35AZVMB	CDK50AZVMB	CDK60AZVMB	FLK25AZVMB	FLK35AZVMB	FLK50AZVMB	FLK60AZVMB	FVK25KZV1B	FVK35KZV1B
RKD25KZV1B	P														P	
RKD35KZV1B			P													P
4MK58AZVMB		M		M	M		M	M	M		M	M	M			
4MK75AZVMB		M		M	M	M	M	M	M	M	M	M	M	M		
4MK90AZVMB		M		M	M	M	M	M	M	M	M	M	M	M		

R-22
HEAT PUMP

R-22 HEAT PUMP	FTY18GV1B9	FTY18JV1B	ANY22A7V1NB (2)	ANY22A7V1NS (2)	ANY22A7V1N9 (2)	FTY22GV1B9	FTY22JV1B	ANY35A7V1NB (2)	ANY35A7V1NS (2)	ANY35A7V1N9 (2)	FTY35GV1B9	FTY35JV1B	FTY40GV1B	FTY45G(A)V1B	FTY60G(A)V1B	FVY223D7V1 (2)	FVY353D7V1 (2)	FVY453D7V1 (2)	FCVY223D7V1 (2)	FCVY353D7V1 (2)	FCVY453D7V1 (2)	FLY22G(A)V1NB	FLY35G(A)V1NB	FLY40G(A)V1NB	FLY45G(A)V1NB	FHYC35FJ7V1	FHYC35BJV1	FHYC35B7V1	FHYC45FJ7V1	FHYC45BJV1	FHYC45B7V1	FHYC60FJ7V1	FHYC60BJV1	FHYC60B7V1	FHYC71FJ7V1	FHYC71BJV1	FHYC71B7V1	FHYC71KVE	FHYC100FJ7V1	FHYC100BJV1	FHYC100B7V1	FHYC125FJ7V1	FHYC125BJV1	FHYC125B7V1
REY18G7V1 REY18GA7V1 REY18GV1B	P	P																																										
ARY22A7V1NB (2)			P																																									
ARY22A7V1NS (2)				P																																								
ARY22A7V1N9 (2)					P																																							
REY22G7V1 REY22GA7V1 REY22GV1B						P	P															P																						
RY22DA7V19 RY22DB7V1 RY22DAV1B						P	P									P						P																						
ARY35A7V1NB (2)								P																																				
ARY35A7V1NS (2)									P																																			
ARY35AA7V1NB (2)								P																																				
ARY35AA7V1N9 (2)										P																																		
REY35G7V1 REY35GA7V1 REY35GV1B											P	P											P																					
RY35D7V1 RY35DA7V1											P	P					P						P			P	P	P																
REY40G7V1 REY40GA7V1													P											P																				
RY45DA7V1 RY45DB7V1														P				P							P				P	P	P													
RY60F7V1 RY60FA7V1															P																	P	P	P										
RY71FJ7V1/W1																										T	T	T							P	P	P							
RY71B7V1/W1																										T	T	T							P	P	P							
RY100FJ7V1/W1																										T	T	T	T	T	T	T	T	T	T	T	T		P	P	P			
RY100B7V1/W1																										T	T	T	T	T	T	T	T	T	T	T	T		P	P	P			
RY125FJ7W1																													T	T	T	T	T	T	T	T	T					P	P	P
RY125B7W1																											T	T	T	T	T	T	T	T	T	T	T					P	P	P
RY200F7W1																											T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T
RY250F7W1																													T	T	T	T	T	T	T	T	T		T	T	T	T	T	T
MEY32G7V1 MEY32GA7V1	M	M									M	M										M	M																					
MY56D7V1 MY56DA7V1						M	M				M	M	M	M					M	M	M	M	M		M																			
MY90CJ7V1/W1						M	M				M	M	M	M					M	M	M	M	M		M																			

R-22
HEAT PUMP

R-22 HEAT PUMP	FHY35FJ7V1	FHY35BJV1	FHY45FJ7V1	FHY45BJV1	FHY60FJ7V1	FHY60BJV1	FHY71FJ7V1	FHY71BJV1	FHY100FJ7V1	FHY100BJV1	FHY125FJ7V1	FHY125BJV1	FHEYB18B(A)7V1	FHEYB22B(A)7V1	FHYB35FJ(FK)7V1	FHYB45FJ(FK)7V1	FHYB60FJ(FK)7V1	FHYB71FK7V1	FHYB71FV1-9	FHYB100FK7V1	FHYB125FK7V1	FHYK35FJV18	FHYK45FJV18	FHYK60FJV18	FHYK71FJV18	FUY71FJV1	FUY100FJV1	FUY125FJV1	FAY71FJV19	FAY100FJV19	FDY125F7V1	FDY125B7V1	FDY200F7V1	FDY200B7V1	FDY250F7V1	FDY250B7V1
REY18G7V1 REY18GA7V1 REY18GV1B													P																							
ARY22A7V1NB (2)																																				
ARY22A7V1NS (2)																																				
ARY22A7V1N9 (2)																																				
REY22G7V1 REY22GA7V1 REY22GV1B														P																						
RY22DA7V19 RY22DB7V1 RY22DAV1B														P																						
ARY35A7V1NB (2)																																				
ARY35A7V1NS (2)																																				
ARY35AA7V1NB (2)																																				
ARY35AA7V1N9 (2)																																				
REY35G7V1 REY35GA7V1 REY35GV1B																																				
RY35D7V1 RY35DA7V1	P	P													P							P														
REY40G7V1 REY40GA7V1																																				
RY45DA7V1 RY45DB7V1			P	P												P							P													
RY60F7V1 RY60FA7V1					P	P											P							P												
RY71FJ7V1/W1	T	T					P	P							T			P				T			P	P			P							
RY71B7V1/W1	T	T					P	P							T			P				T			P	P			P							
RY100FJ7V1/W1	T	T	T	T	T	T	T	T	P	P					T	T	T	T		P		T	T	T	T	T	P		T	P						
RY100B7V1/W1	T	T	T	T	T	T	T	T	P	P					T	T	T	T		P		T	T	T	T	T	P		T	P						
RY125FJ7W1			T	T	T	T	T	T			P	P				T	T	T			P		T	T	T	T		P	T		P	P				
RY125B7W1		T	T	T	T	T	T	T			P	P			T	T	T	T			P	T	T	T	T	T		P	T		P	P				
RY200F7W1		T	T	T	T	T	T	T	T	T	T	T			T	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	P	P		
RY250F7W1			T	T	T	T	T	T	T	T	T	T				T	T	T		T	T		T	T	T	T	T	T	T	T	T	T			P	P
MEY32G7V1 MEY32GA7V1													M																							
MY56D7V1 MY56DA7V1														M																						
MY90CJ7V1/W1														M																						

R-22, INVERTER CONTROLLED HEAT PUMP

R-22, INVERTER CONTROLLED HEAT PUMP	FTX25HV1NB(9)	FTX25J(A)V1NB	CTX25GV1NB9	FTX35HV1NB(9)	FTX35J(A)V1NB	CTX35GV1NB9	FVXT40GV1NB	CTX45GV1NB	FTX50HV1NB	FVXT50GV1NB	FTXD50JV1B	FTX60HV1NB	FTXD60JV1B	FTXD71JV1B	FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B	CDX25H(A)V1NB(8)	CDX35H(A)V1NB(8)	CDX50H(A)V1NB(8)	CDX60H(A)V1NB(8)	FHYC35,45,60BJV1	FHYC35,45,60B7V1	FHYC71KVE	FHYC71BJV1	FHYC71B7V1	FHYB35FJ(FK)7V1	FHYB45FJ(FK)7V1	FHYB60FJ(FK)7V1	FHYB71FK7V1	FHYB71FV1-9	FVX25KZV1B (**)	FVX35KZV1B (**)	FTXD25KZV1B (***)	FTXD35KZV1B (***)
RX25HV1NB	P																																			
RX25JV1NB(9)		P																																		
RX35HV1NB				P																																
RX35JV1NB(9)					P																															
RXT40GV1NB							P																													
RXT50GV1NB										P																										
RXD50JV1B											P						P																			
RXD60JV1B													P					P																		
RXD71JV1B														P																						
RZY71LV1 (inverter sky air)																									P	P	P					P				
2MX52HV1NB	M	M	M	M	M	M		M	M		M				M	M	M		M	M	M												M	M	M	M
3MX68GV1NB	M	M	M	M	M	M		M											M	M																
3MX68HV1NB	M	M	M	M	M	M		M	M		M	M	M		M	M	M	M	M	M	M	M											M	M	M	M
4MX80HV1NB	M	M		M	M				M		M	M	M		M	M	M	M	M	M	M	M											M	M	M	M
RMX140JVMB		M			M						M		M	M	M	M	M	M	M	M	M	M	M	M		M	M	M	M	M	M		M	M	M	M

R-407C HEAT PUMP

R-407C HEAT PUMP	FTX25GZV1NB(9)	FTX25JZV1NB	FTX35JZV1NB	FHYC35KZV1	FHYC35BZV1	FHYC35BZ7V1	FHYCP35B7V1	FHYC45KZV1	FHYC45BZV1	FHYC45BZ7V1	FHYCP45B7V1	FHYCP60B7V1	FHYC71KZV1	FHYC71BZV1	FHYCP71B7V1	FHYC100KZV1	FHYC100BZV1	FHYCP100B7V1	FHYC125KZV1	FHYC125BZV1	FHYCP125B7V1	FHY35GZ7V1	FHYP35BV1	FHY45GZ7V1	FHYP45BV1	FHYP60BV1	FHY71GZ7V1	FHYP71BV1	FHY100GZ7V1	FHYP100BV1	FHY125GZ7V1	FHYP125BV1	FHYB35GZ7V1	FHYBP35B7V1	FHYB45GZ7V1	FHYBP45B7V1	FHYBP60B7V1	FHYB71GZ7V1	FHYBP71B7V1	FHYB100GZ7V1	FHYBP100B7V1	FHYB125GZ7V1	FHYBP125B7V1
RX25GZV1NB	P																																										
RXT25JZV1NB		P																																									
RXT35JZV1NB			P																																								
RY35E(A)Z7V1				P	P	P																P											P										
RY45E(A)Z7V1								P	P	P														P											P								
RY71GZ7V1/W1				T	T	T							P	P								T					P						T					P					
RYP71B7V1/W1							T								P								T					P						T					P				
RY100GZ7V1/W1				T	T	T		T	T	T			T	T		P	P					T		T			T		P				T		T			T		P			
RYP100B7V1/W1							T				T	T			T			P					T		T	T		T		P				T		T	T		T		P		
RY125GZ7W1				T	T	T		T	T	T			T	T		T	T		P	P		T		T			T		T		P		T		T			T		T		P	
RYP125B7W1							T				T	T			T			T			P		T		T	T		T		T		P		T		T	T		T		T		P
RYP200B7W1							T				T	T			T			T			T		T		T	T		T		T		T		T		T	T		T		T		T
RYP250B7W1											T	T			T			T			T				T	T		T		T		T				T	T		T		T		T
RZP71DV1											T	T			P										T	T		P								T	T		P				
RZP100DV1											T	T						P							T	T				P											P		
RZP125DV1											T	T									P				T	T						P											P
RMX140JZVMB																																											

R-407C HEAT PUMP

R-407C HEAT PUMP	FAYP71BV1	FAYP100BV1	FUYP71BV1	FUYP71BV17	FUYP100BV1	FUYP100BV17	FUYP125BV1	FUYP125BV17	FHYKP35BV1	FHYKP45BV1	FHYKP60BV1	FHYKP71BV1	FDYP125B7V1	FDYP200B7V1	FDYP250B7V1	FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B	CDX25HAV1NB	CDX35HAV1NB	CDX50HAV1NB	CDX60HAV1NB	FHYB35FK7V1	FHYB45FK7V1	FHYB60FK7V1	FHYB71FK7V1	FHYC35B7V1	FHYC45B7V1	FHYC60B7V1	FHYC71B7V1	FLX25HV1NB	FLX35HV1NB	FLX50JV1B	FLX60JV1B	FVX25KZV1B (**)	FVX35KZV1B (**)	FTXD35KZV1B (**)	FTXD35KZV1B (**)
RX25GZV1NB																																								
RXT25JZV1NB																																								
RXT35JZV1NB																																								
RY35E(A)Z7V1																																								
RY45E(A)Z7V1																																								
RY71GZ7V1/W1																																								
RYP71B7V1/W1	P		P	P					T			P																												
RY100GZ7V1/W1																																								
RYP100B7V1/W1	T	P	T	T	P	P			T	T	T	T																												
RY125GZ7W1																																								
RYP125B7W1	T	T	T	T	T	T	P	P	T	T	T	T	P																											
RYP200B7W1	T	T	T	T	T	T	T	T	T	T	T	T	T	P																										
RYP250B7W1	T	T	T	T	T	T	T	T		T	T	T	T		P																									
RZP71DV1	P			P																																				
RZP100DV1		P				P																																		
RZP125DV1								P																																
RMX140JZVMB																M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

R-410A, INVERTER CONTROLLED HEAT PUMP	FTXD25KZV1B	FTX25AZVMB	FTXD35KZV1B	FTX35AZVMB	FTX50AZVMB	FTX60AZVMB	FTX71AZVMB	CDX25AZVMB	CDX35AZVMB	CDX50AZVMB	CDX60AZVMB	FLX25AZVMB	FLX35AZVMB	FLX50AZVMB	FLX60AZVMB	FVX25KZV1B	FVX25AZVMB	FVX35KZV1B	FVX35AZVMB	FVX50AZVMB
RXD25KZV1B	P															P				
RXD35KZV1B			P															P		
RX50AZVMB					P									P						P
RX60AZVMB						P														
RX71AZVMB							P													
3MX52AZVMB		M		M	M			M	M	M		M	M	M			M		M	M
4MX68AZVMB		M		M	M	M		M	M	M	M	M	M	M	M		M		M	M
4MX80AZVMB		M		M	M	M	M	M	M	M	M	M	M	M	M		M		M	M

Twin - Triple and Double Twin combination - capacity combinations that are allowed

	71	100	125	200	250
valid for sky air indoor F-series and indoor B-series	35 + 35	35 + 71 45 + 60 45 + 45 35 + 35 + 35	60 + 60 45 + 71 45 + 45 + 45	100 + 100 125 + 71 45 + 71 + 71 45 + 45 + 100 60 + 60 + 60 71 + 71 + 71 45 + 45 + 45 + 45	125 + 125 125 + 60 + 60 100 + 100 + 45 60 + 60 + 60 + 60
only valid for sky air indoor B-series			45 + 35 + 35	35 + 71 + 100 35 + 35 + 125 45 + 60 + 100 71 + 60 +60	125 + 45 + 71 100 + 71 + 71
for sky air inverter R-407C	35 + 35	45 + 45	60 + 60		

REMARKS

M stands for Multi combination
P stands for Pair combination,
T stands for Twin or Triple or Double Twin combination
(*) "Not yet officially decided for mass production"
(**) The number of connectable FVK(X) models is limited.
2MX52, 3MX68: up to 1 indoor unit. 4MK90, 4MX80: up to 2 indoor units.
Not mentioned about multi system in operation manuals
(***) the "outdoor unit silent operation" will not work, although this button is provided on the remote controller
(2) means "Scheduled for abolishment"

Limitations for Installation

- For Double Twin: always connect indoor types of the same capacity class
- Installation for Twin, Triple or Double Twin:
  - install all the indoors of 1 system in 1 temperature zone
  - do not select FHYB as base unit with mixed use of units (swing flap function does not exist on FHYB)

Regarding inverter multi combinations

- In the combination 3MX68GV1NB with CTX25,35GV1NB(9) there is no auto-restart and no powerful mode
- In the combination 3MX68GV1NB with FTX25,35HV1NB(9), CDX25,35HV1NB only the indoor unit is working in powerful mode



BEV71-140KVE



FUYP71BV17

7 FUYP71-125BV17

4-way blow ceiling suspended cassette

BACKGROUND

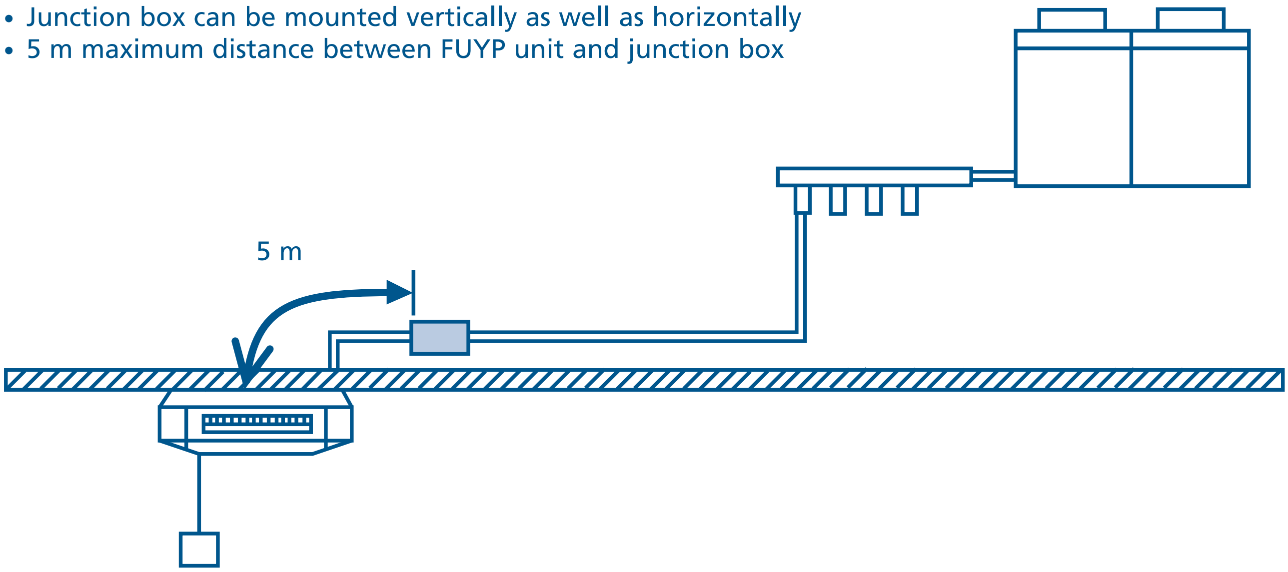
This new 4-way blow ceiling suspended cassette will replace the current FUYP-BV1 and is connectable to R-407C Sky Air and VRV outdoor units by means of a junction box.

MODEL RANGE

INDOOR UNIT	JUNCTION BOX
FUYP71BV17	BEV71KVE
FUYP100BV17	BEV140KVE
FUYP125BV17	

FEATURES

- Group control with other VRV indoor units possible
- Cool heat selection
- Prevention of cold draught at hot start, defrost and oil return in heating
- Junction box can be mounted vertically as well as horizontally
- 5 m maximum distance between FUYP unit and junction box



Refrigerant: R-407C • **Power supply:** V1: 1~, 230V, 50Hz

SPECIFICATIONS

FUYP-BV17			71	100	125
Cooling capacity		kW	7.09	10.0	12.5
Heating capacity		kW	7.7	11.0	14.0
Nominal input	cooling	W	2.66	3.64	4.66
	heating	W	2.62	3.6	4.91
Dimensions	HxWxD	mm	165x895x895	230x895x895	230x895x895
Weight		kg	25	31	31
Air flow rate	H/L	m3/min	19/14	29/21	32/23
Sound pressure level	H/L	dB(A)	40/35	43/38	44/39
Sound power level	H/L	dB(A)	56/51	59/54	60/55

Power supply: VE: 1~, 230V, 50Hz

BEV-KVE			71	140
Connection capacity		kW	8.0 or less	11.2 ~ 16.0
Dimensions	HxWxD	mm	100x350x225	
Weight		kg	3.0	3.5
Casing			Galvanised steel plate	
Unit connection			ø 9.5 / ø 15.9	ø 9.5 / ø 19.1
Header connection			ø 6.4 / ø 12.7	-

ACCESSORIES

FUYP-BV17	71	100	125
Sealing member of air discharge outlet	KDBHJ49F80	KDBHJ49F140	
Air discharge decoration panel	KDBTJ49F80	KDBTJ49F140	
Vertical flap kit	KDGJ49F80	KDGJ49F140	
Replacement long life filter	KAFJ495F140		
L-type connection piping kit	KHFJ49F80	KHFJ49F140	

CONTROL SYSTEMS

FUYP-BV17		71	100	125
Wired remote control		BRC1C517		
Infrared remote control	Cooling only	BRC7C529W		
	Heat pump	BRC7C528W		
Centralised remote control		DCS302B51		
Unified on/off control		DCS301B51		
Schedule timer		DST301B51		
Group control adapter (1)		KRP4A53		
Interface adapter for Sky Air series		DTA102A52		
Installation box for adapter PCB		KRP1B97		
Remote sensor		KRCS01-1		

Note :
1. Installation box for adapter PCB (KRP1B97) is necessary



FXYAP20-32LVE

8 FXYAP20-32LVE

Wall mounted unit

BACKGROUND

The current range of wall mounted units, FXYAP20,25,32KV19 will be replaced by the new L series.
The new wall mounted units are compact and suitable for commercial and residential applications.

MODEL RANGE

INDOOR UNIT
FXYAP20LVE
FXYAP25LVE
FXYAP32LVE

*Model name is not yet fixed

FEATURES

- new & compact casing :
  - reduction in width from 1,050 to 795 mm
  - reduction in height from 360 to 290 mm
- dramatic weight reduction : from 21 to 11 kg

SPECIFICATIONS

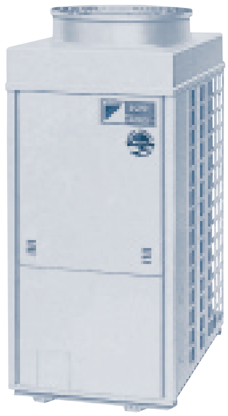
FXYAP-LVE			20	25	32
Cooling capacity		kW	2.0	2.5	3.15
Heating capacity		kW	2.2	2.8	3.4
Dimensions	HxWxD	mm	290x230x795		
Weight		kg	11		
Colour			white (B-272)		
Air flow rate	H/L	m^3/min	7.5/4.5	8.0/5.0	9.0/5.5
Sound pressure level	H/L	dBA	35/29	36/29	37/29

ACCESSORIES

FXYAP-LVE	20	25	32
Drain pump kit	K-KDU572BVE		

CONTROL SYSTEMS

FXYAP-LVE		20	25	32
Wired remote control		BRC1C517		
Infrared remote control	Cooling only	BRC7C511W		
	Heat pump	BRC7C510W		
Centralised remote control		DCS302B51		
Unified on/off control		DCS301B51		
Schedule timer		DST301B51		
Wiring adapter		KRP1B3		
Wiring adapter for electrical appendices (1)		KRP2A51		
Wiring adapter for electrical appendices (2)		KRP4A51		
External control adapter for outdoor unit		DTA104B61		
Mix matching adapter for « K » indoor unit		DTA106A61		
Remote sensor		KRCS01-1		
Electrical box with earth terminal (2 blocks)		KJB212A		
Electrical box with earth terminal (3 blocks)		KJB311A		
Noise filter (for electromagnetic interface use only)		KEK26-1		



RSX(Y)P5L7W1



RSX(Y)P8L7W1



RSX(Y)P10L7W1

9 RSX(Y)P5-10L7W1

BACKGROUND

Daikin launches a new VRV outdoor range, nl. the RSX(Y)P-L series - an environmental friendly, energy saving series with high COP levels and flexible design characteristics.

MODEL RANGE

OUTDOOR UNIT - COOLING ONLY / HEAT PUMP
RSX(Y)P5L7W1
RSX(Y)P8L7W1
RSX(Y)P10L7W1

FEATURES

- **High COP level**: 3.1 average cooling at standard point
  3.2 average heating at standard point

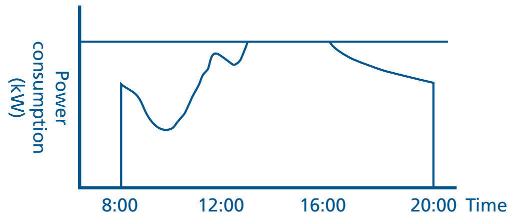
- **High partial load performance**

- **Environmental friendly**
  - Ozone friendly refrigerant: R-407C
  - Reduction in refrigerant by 10 % or more
  - Refrigerant recovery function:
    this service mode enables all expansion valves of the VRV system to be opened. In this way the refrigerant can be drained from the VRV piping system and stored in a separate recovery tank

- **Super aero grille & Powerful fan**
  Improved aerodynamic shape of the grille in combination with a newly developed fan results in a 10 % increase in air flow rate

- **DC fan motor**
  The use of a DC fan motor offers substantial improvements in operating efficiency compared to conventional AC motors, especially during low speed rotation

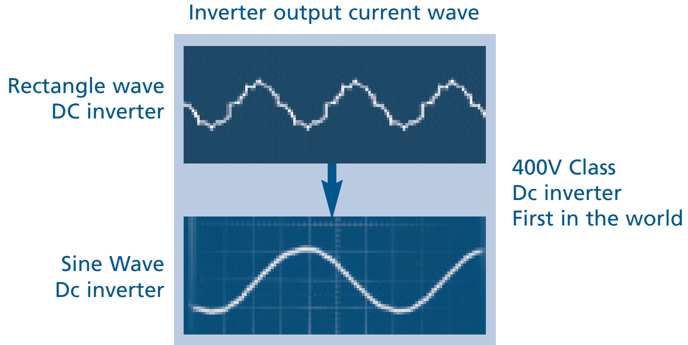
- **I-demand function**
  The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption



- **e-Bridge circuit**
  Prevents accumulation of liquid refrigerant in the condenser. This results in more efficient use of the condenser surface under any circumstance and leads in turn to better energy efficiency

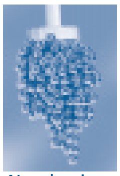
- **e-Pass heat exchanger**
  Optimisation of the path layout of the heat exchanger prevents heat transferring from the overheated gas section towards the sub cooled liquid section - a more efficient use of the heat exchanger.

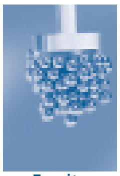
- **Sine Wave DC inverter**
  Optimising the sine wave curve results in smoother motor rotation and improved motor efficiency

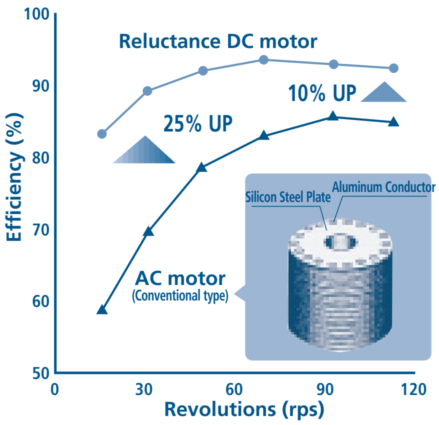


- **Reluctance DC motor**
  The reluctance DC motor provides significant increases in efficiency compared to conventional AC inverter motors, simultaneously using 2 different forms of torque to produce extra power from small electric currents.

  The motor comprises powerful neodymium magnets, which are approximately 10 times stronger than ferrite magnets and make a major contribution to its energy saving characteristics.


Neodymium magnet


Ferrite magnet



- **DC inverter compressor**
  Switching the electric DC motor from the low pressure side to high pressure side prevents extra heating of the suction gas, thereby raising the volumetric efficiency of the compressor

- **Night quiet operation: external input mode**
  - The night quiet mode can be activated by inputting the external signal to the outdoor unit PCB.
  - ± -8dBA in night quiet mode

- **Increased installation flexibility**
  - Extended piping length from 100 m to 120 m (actual length)
  - high ESP fan motor standard (standard setting: 3 mm H_2O, can be switch to 6 mm H_2O)

- **Complete compatibility with**
  - Intelligent Touch Controller
  - Intelligent Manager
  - BACnet Gateway

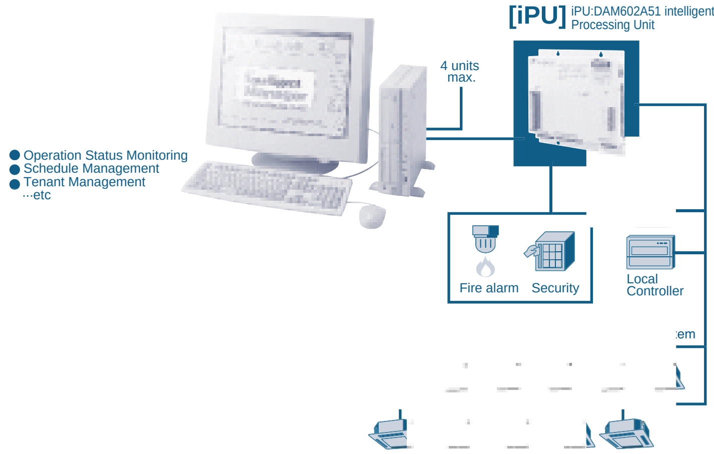
SPECIFICATIONS

RSX(Y)P-L7W1			**5**	**8**	**10**
Cooling capacity		kW	14.0	22.4	28.0
Heating capacity*		kW	16.0	25.0	31.5
Nominal input	Cooling	kW	4.58	6.99	8.97
	Heating*	kW	5.10	8.33	10.24
COP	Cooling		> 3.1	> 3.2	> 3.1
	Heating*		> 3.2	> 3.2	> 3.2
Dimensions	HxWxD	mm	1,440x635x690	1,220x1,280x690	1,440x1,280x690
Weight		kg	142	225	246
Air flow rate		m^3/min	90	168	190
Sound pressure level		dBA	54	57	57
Refrigerant amount		kg	5.6	8.6	9.6
Piping connections	Liquid	mm	Ø 9.5 flare con.	Ø 12.7 flare connection	
	Gas	mm	Ø 19.1 brazing con.	Ø 28.6 brazing con.	
Maximum piping length		m	120	120	120

* for heat pump model only

ACCESSORIES

RSX(Y)P-L7W1	**5**	**8**	**10**
Cool/Heat selector	KRC19-26A		
Fixing wiring plate	KKSAJ26A(E)		
Fixing box	KJB111A		
Refnet header	KHRP26K11H (max. 4 branches)	KHRP26K18H (max. 8 branches)	
		KHRP26K37H (max. 8 branches)	
Refnet joint	KHRP26K11T	KHRP26K18T, KHRP26K37T	



10 intelligent Manager

BACKGROUND

Intelligent manager is the end product of field experience gained on D-BACS and represents a considerable leap forward in computerised air conditioning control. Increased reliability - stand alone operation of 48 hours of the central computer, and better site management stemming from its free layout are just a few of the many improvements.

CONCEPT

iPU	Number of indoors	Number of outdoors
1	up to 256	up to 40
2	up to 512	up to 80
3	up to 768	up to 120
4	up to 1,024	up to 160

MODEL RANGE

Hardware	DAM602A51
Software	IM1.XX

FEATURES

- **Management**
  - Proportional power consumption division
  - Operational history management (start/stop, malfunction, operation hours)
  - Generation of reports (graphics & tables) (daily, weekly, monthly)
  - Peak load shedding
  - Advanced tenant management
  - Sliding temperature
  - Eco mode
- **Control**
  - Individual control (setpoint, start/stop, fan speed) (max. 1,024 indoor units)
  - Group control (100 groups)
  - Schedule control (128 programs)
  - Fire emergency stop control (32 programs)
  - Interlocking control
  - Setpoint limitation
  - Automatic cool-heat changeover
  - Power failure/release control
  - Temperature limit (automatic start)
  - Timer extension
- **Monitoring**
  - Visualisation via a Graphical User Interface (GUI) featuring free layout
  - Operation mode of indoor & outdoor units
  - Fault indication
  - Indication filter replacement
  - Setpoint indication
  - Operation time monitoring
  - Multi PC
  - On-line help
- **System layout**
  - Up to 1,024 indoor units can be controlled (by 4 iPUs)
  - Ethernet TCPIP / 10 base/T communication
  - Integrated digital contacts on the Intelligent Processing Unit (iPU)
    - 16 input ports for kWh measurement
    - 3 general input ports
    - 2 digital outputs
  - Stand alone operation of the iPU for minimum 48 hours
  - Compatible with UPS shutdown software

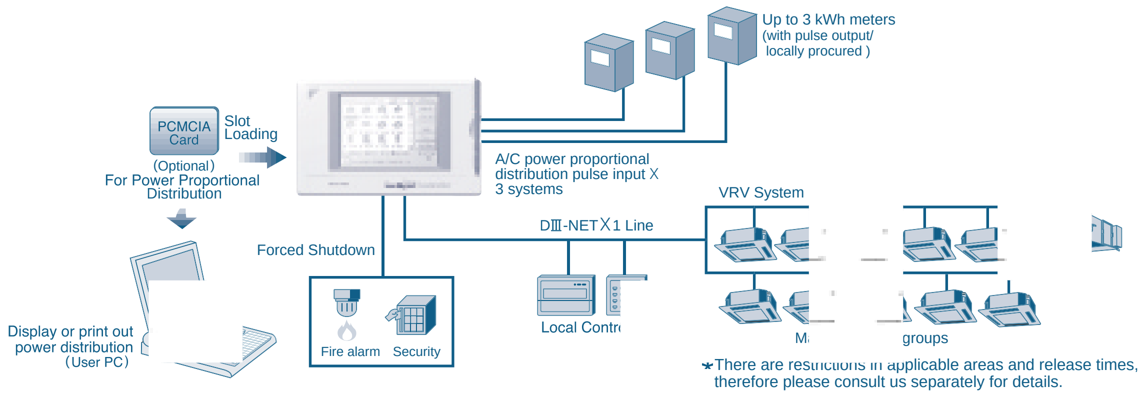
Service and commissioning is offered by your technical service department.

SPECIFICATIONS

Main specifications			**Requirement**
PC	Performance	CPU	Pentium 300MHz or above recommended
		Memory	64MB or above
		HDD	4GB minimum, 8GB or above recommended
	Network		10Base/T
	Operation		Keyboard/Mouse, Sound and Speaker
	Software		Windows NT (ver4.0(SP4)) English version, Microsoft Excel 2000
CRT	SVGA		800 x 600, 1,240 x 768
Printer			A4 Page printer
Network Equipment			Multi Port HUB (4 or more ports)
Intelligent Processing unit (iPU)	Reference		DAM602A51
	indoor unit connection		256 indoor units/1 iPU
	Maximum		1,024 indoor units/4 iPUs
	Back-up for power failure		Date are filed into non-volatile memory
	Transmission		DIII-NET std : 1 line, Max. 4 lines/1 iPU
	Power supply		AC200~240V, ±10 %, 50/60Hz, Max 20W
	Ambient temperature		-10 ~ +50°C
	Ambient humidity		0 ~ 98 % (condensation is not acceptable)
	Dimensions	mm	260(W) x 281(H) x 78.5(D)
	Weight	kg	4

UPS (eg. APC SU700, 1000 series)		**Requirement**
UPS	Capacity	200 ~250W/20 min
	Voltage	As required on the field
	Control signals	Power failure signal (from UPS)
		UPS shutdown signal (to UPS)
	Relay	I/0 module (AP9610)

More information can be found in the Intelligent Manager catalogue (PCE00-13A)



11 intelligent touch Controller

BACKGROUND

The intelligent Touch controller is the ideal solution for those applications too small to warrant the use of Intelligent Manager such as small and medium sized buildings with a maximum of 64 indoor units.

MODEL RANGE

Hardware	DCS601A51
Software (proportional power consumption division)	DCS002A51

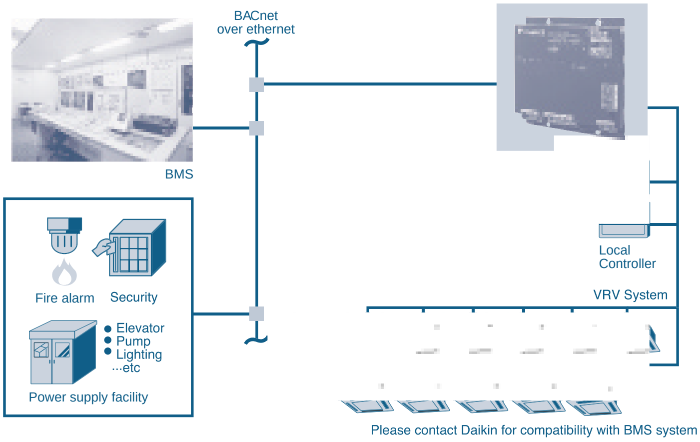
FEATURES

- **Powerful functions**
  - Yearly schedule
  - Proportional power consumption division
  - Fire emergency stop control
- **Simple Operation**
  - Touch screen
  - Colour LCD
  - Icon display
- **Cost Perfomance**
  - Labor saving
  - Easy installation
  - Overall energy saving

SPECIFICATIONS

Intelligent Touch Controller			**DCS601A51**
Maximum number of indoors			64
Maximum number of outdoors			10
PC + display			Built-in
Power supply			Externally supplied AC100V-240V 50/60Hz
Installation method condition for use			JIS4 switchbox embedded in indoor wall
Operation condition	Surrounding temperature/humidity		0°C-40°C / less than 85 % RH (if no condensation)
Dimensions	Panel size	mm	230 x 147 x 40
Overseas certification	Safety of Information Technology Equipment		IEC60730 (including IEC60335)
LCD panel	Size / n° of dots / n° of colours		5.7 inches / QVGA 320 240 / 4096 colours
Input	Touch panel		10 bit encoded analog input
Communication functions	DIII-NET		1 line of air conditioner equipment for communication use
	RS232C		For servicing x 1 / modem x 1
Input terminals	Digital input		Compulsory Shutdown input x 1
	Pulse input		Power measuring pulse input x 3
Software			DCS002A51
			Proportional power consumption division software

More information can be found in the Intelligent Touch Controller catalogue (PCE01-17)



12 BACnet Gateway

BACKGROUND

Bacnet Gateway is an integrated control system that connects a VRV system to a BMS system

MODEL RANGE

BACnet Gateway	DMS502A51
DIII board	DAM411A1

FEATURES

- Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet or RS232C)
- 256 units connectable per BACnet gateway
- Unlimited site size
- Easy and fast installation

FUNCTIONS

Monitoring	Air conditioning status monitoring : 64 groups of indoor units and 10 outdoor units (Max. 256 groups of indoor units and 40 outdoor units, when optional DIII board is added) (cf. note)
	Indoor unit error monitoring
	Indoor (air inlet) temperature monitoring
	Filter sign monitoring
Control, operation and setting	Start/Stop control
	Temperature adjustment mode setting
	Remote control setting
	Temperature setting
	Filter sign reset
Display	Air conditioner operation setting and status
	Set temperature
	Indoor unit error
	Indoor (air inlet) temperature
	Filter sign

Note :
If exceeding the stated number of outdoor units, DIII-NET expander adapter (DTA109A51) allows easy system connection as long as restrictions are observed.

MAIN SPECIFICATIONS

Transmission	BACnet™	ASHRAE135 (IEEE802.3)
		BACnet/IP
		Conformance Class 3
	RS232C	RS232C (4800,9600bps)
Power supply		Single-phase 200 to 240 VAC ± 10 % at 50/60Hz
Power consumption		20W max
Ambient condition		-10°C to 50°C within humidity range between 0 % and 98 % (no condensation)
Insulation resistance		At least 50M Ω at 500VDC
Dimensions	WxHxD	260 x 281 x 58.5
Weight	kg	± 4

COMMUNICATION SPECIFICATIONS

Objects	Analog input
	Analog output
	Analog value
	Binary input
	Binary output
	Binary value
	Multistate input
	Multistate output
Functionality	Monitoring
	Commanding
	Alarming
Datalink	Ethernet (IEEE802.3)
	BACnet/IP

More information can be found in the BACnet Gateway catalogue (PCE00-18A)

Service and commissioning is offered by your technical service department.



EUW5-12HZW1



EUW16-24HZW1

13 EUW5-72HZW1

Water-cooled chillers using R-407C

BACKGROUND

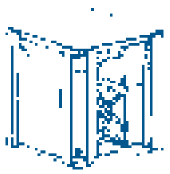
In order to offer even more possibilities, we are pleased to introduce our new range of small watercooled chillers, the EUW5-72HZ. These chillers do not only replace the old EUW5-20F range, but also allow Daikin to enter a new market not covered until now.

MODEL RANGE

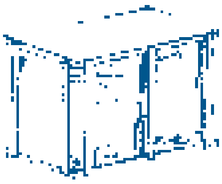
EUW5-8-10-12HZ	Basic model	
EUW16-20-24HZ	Single module	EUW16HZ = 1 x EUWN16HZ + ECB1MUW
		EUW20HZ = 1 x EUWN20HZ + ECB1MUW
		EUW24HZ = 1 x EUWN24HZ + ECB1MUW
EUW32-36-40-44-48HZ	Double module	EUW32HZ = 2 x EUWN16HZ + ECB2MUW
		EUW36HZ = 1 x EUWN16HZ + 1 x EUWN20HZ + ECB2MUW
		EUW40HZ = 2 x EUWN20HZ + ECB2MUW
		EUW44HZ = 1 x EUWN20HZ + 1 x EUWN24HZ + ECB2MUW
		EUW48HZ = 2 x EUWN24HZ + ECB2MUW
EUW52-56-60-64-68-72HZ	Triple module	EUW52HZ = 2 x EUWN16HZ + 1 x EUWN20HZ + ECB3MUW
		EUW56HZ = 2 x EUWN20HZ + 1 x EUWN16HZ + ECB3MUW
		EUW60HZ = 3 x EUWN20HZ + ECB3MUW
		EUW64HZ = 2 x EUWN20HZ + 1 x EUWN24HZ + ECB3MUW
		EUW68HZ = 2 x EUWN24HZ + 1 x EUWN20HZ + ECB3MUW
		EUW72HZ = 3 x EUWN24HZ + ECB3MUW

FEATURES

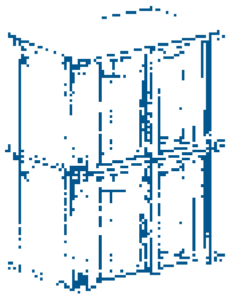
- Daikin scroll compressor
- Optimised design for use with R-407C refrigerant
- Low operating sound level
- Electronic DDC controller
- Low energy consumption
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Remote cooling or heating selection
- Water/water heat pump, with water reversibility
- Compatible with hydraulic module



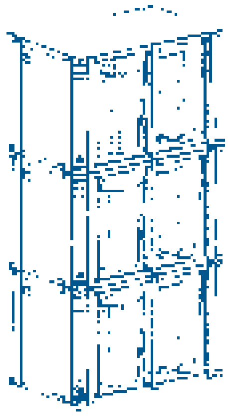
EUW5-12HZ



EUW16-24HZ



EUW32-48HZ



EUW52-72HZ

SPECIFICATIONS

			EUW5HZ	EUW8HZ	EUW10HZ	EUW12HZ	EUW16HZ	EUW20HZ	EUW24HZ
Nominal capacity		kW	13.0	21.5	27.5	32.5	43	55	65
Nominal input		kW	3.71	5.80	7.80	9.10	11.2	15.6	18.3
Capacity steps		%	1				2		
Refrigerant	type		R-407C				R-407C		
Compressor	type		hermetically sealed scroll				hermetically sealed scroll		
No. refrigerant circuits / compressors			1/1	1/1	1/1	1/1	2/2	2/2	2/2
Dimensions	HxWxD	mm	600x600x600				600x600x1,200		
Machine weight		kg	113	150	160	167	300	320	334
Sound power level		dBA	64	64	64	64	67	67	67
Power supply		W1	3N~/400V/50Hz				3N~/400V/50Hz		

			EUW32HZ	EUW36HZ	EUW40HZ	EUW44HZ	EUW48HZ
Nominal capacity		kW	86	98	110	120	130
Nominal input		kW	22.4	26.8	31.2	33.9	36.6
Capacity steps		%	4				
Refrigerant	type		R-407C				
Compressor	type		hermetically sealed scroll				
No. refrigerant circuits / compressors			4/4	4/4	4/4	4/4	4/4
Dimensions	HxWxD	mm	1,200x600x1,200				
Machine weight		kg	600	620	640	654	664
Sound power level		dBA	70	70	70	70	70
Power supply		W1	3N~/400V/50Hz				

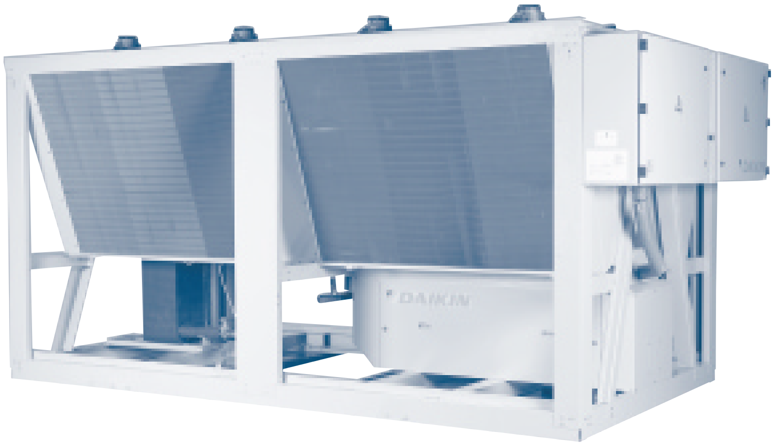
			EUW52HZ	EUW56HZ	EUW60HZ	EUW64HZ	EUW68HZ	EUW72HZ
Nominal capacity		kW	141	153	165	175	185	195
Nominal input		kW	38.0	42.4	46.8	49.5	52.2	54.9
Capacity steps		%	6					
Refrigerant	type		R-407C					
Compressor	type		hermetically sealed scroll					
No. refrigerant circuits / compressors			6/6	6/6	6/6	6/6	6/6	6/6
Dimensions	HxWxD	mm	1,800x600x1,200					
Machine weight		kg	920	940	960	974	988	1,002
Sound power level		dBA	72	72	72	72	72	72
Power supply		W1	3N~/400V/50Hz					

OPTIONS

option number	option description	unit size																		availability
		5	8	10	12	16	20	24	32	36	40	44	48	52	56	60	64	68	72	
	Not completely combinable options																			
zh	glycol application chilled water temperature down to -5°C	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
zl	glycol application chilled water temperature down to -10°C	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
	Available kit																			
EKDME	Evaporator hydronic connection double module	-	-	-	-	-	-	-	o	o	o	o	o	-	-	-	-	-	-	kit
EKTME	Evaporator hydronic connection triple module	-	-	-	-	-	-	-	-	-	-	-	-	o	o	o	o	o	o	kit
EKDMC	Condensor hydronic connection double module	-	-	-	-	-	-	-	o	o	o	o	o	-	-	-	-	-	-	kit
EKTMC	Condensor hydronic connection triple module	-	-	-	-	-	-	-	-	-	-	-	-	o	o	o	o	o	o	kit

Impossible option combinations:
ZH + ZL

o available
- not available





EUWA*80-120MZY1

14 EUWA*40-200MZY1

Air-cooled water chillers using R-407C

BACKGROUND

The current EUWA*40-200LZ series will be replaced by the new MZ series. These chillers contain the new G-type compressor and are equipped with the new pCO² controller (see chapter 17).

MODEL RANGE

EUWA40MZY	EUWA120MZY
EUWA50MZY	EUWA140MZY
EUWA60MZY	EUWA160MZY
EUWA80MZY	EUWA180MZY
EUWA100MZY	EUWA200MZY

FEATURES

- PED approved units
- Daikin single screw compressor
- All components optimised for use with R-407C refrigerant
- Advanced pCO² DDC controller
- Modular format
- Standard operating range down to -15°C ambient
- High quality, anti-corrosion treated components as standard
- Moisture indicator as standard
- Victaulic joints as standard
- Chilled water temperatures down to -10°C on standard unit.
  (Parameter in the service menu of the DDC controller must be set by the installer)
- DICN operation as standard between all listed units.
- Evaporator heater tape as standard on all units
- Multiple capacity steps
- Double refrigeration circuit (from 160HP on)

SPECIFICATIONS

			EUWA*40MZ	EUWA*50MZ	EUWA*60MZ	EUWA*80MZ	EUWA*100MZ
Nominal cooling capacity		kW	111	144	164	203	274
Nominal power input		kW	43	53	65	80	103
Capacity steps		%	100-74-48-0				
Compressor type			Semi - hermetic single screw compressor				
Refrigerant type			R-407C				
No. of circuits/compressors			1/1	1/1	1/1	1/1	1/1
Dimensions	HxWxD	mm	2,250x2,340x2,238			2,250x4,280x2,238	
Machine weight		kg	1,346	1,610	1,637	2,833	2,565
Operation weight		kg	1,354	1,623	1,653	2,853	2,592
Sound power level		dBA	91	94	95	98	98
Power supply		Y1	3~, 50Hz, 400V				

			EUWA*120MZ	EUWA*140MZ	EUWA*160MZ	EUWA*180MZ	EUWA*200MZ
Nominal cooling capacity		kW	313	392	419	479	539
Nominal power input		kW	130	150	158	190	213
Capacity steps		%	100-74-48-0	100-74-48-36-0	100-87-74-61-48-24-0	100-89-74-63-48-27-0 (100% compressor leads)	100-87-74-61-48-24-0
Compressor type			Semi - hermetic single screw compressor				
Refrigerant type			R-407C				
No. of circuits/compressors			1/1	1/1	2/2	2/2	2/2
Dimensions	HxWxD	mm	2,250x4,280x2,238	2,250x5,906x2,238			
Machine weight		kg	3,404	4,500	5,002	5,044	5,086
Operation weight		kg	3,438	4,574	5,076	5,125	5,174
Sound power level		dBA	99	100	100	101	102
Power supply		Y1	3~, 50Hz, 400V				

OPTIONS

option number	option description	model-type			unit size									availability
		PED	d	s	40	50	60	80	100	120	160	180	200	
	Completely combinable options													
op03	dual pressure relief valve on the condenser	o	std	std	o	o	o	o	o	o	o	o	o	fact. mounted
op12	suction stop valve	o	std	std	o	o	o	o	o	o	o	o	o	fact. mounted
op52	main isolator switch (only y1-model)	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
op57	a-meter, V-meter	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
OPLN	low noise operation	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
OPCG	condenser protection grilles	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted

o available
std standard



EUWA*80-120MXY1/T1

15 EUWA*40-200MXY1/T1

Air-cooled water chillers using R-134a

BACKGROUND

The current EUWA*40-200K(A)X series will be replaced by the new MX series. These chillers contain the new G-type compressor and are equipped with the new pCO^2 controller (see chapter 17).

MODEL RANGE

EUWA40MXY	EUWA40MXT
EUWA50MXY	EUWA50MXT
EUWA60MXY	EUWA60MXT
EUWA80MXY	EUWA80MXT
EUWA100MXY	EUWA100MXT
EUWA120MXY	EUWA120MXT
EUWA160MXY	
EUWA180MXY	
EUWA200MXY	

FEATURES

- All models are PED pressure vessel approved.
- Daikin single screw compressor
- All components optimised for use with R-134a refrigerant
- Advanced pCO^2 DDC controller
- Electronic expansion valve for refrigerant circuits >= 80HP
- Modular format
- Standard operating range down to -15°C ambient
- High quality, anti-corrosion treated components as standard
- Moisture indicator as standard
- Victaulic joints as standard
- Chilled water temperatures down to -10°C on standard unit.
  (Parameter in the service menu of the DDC controller must be set by the installer)
- DICN operation as standard between all listed air-cooled and listed water-cooled units.
  (air-cooled and water-cooled can not be mixed)
- Liquid line solenoid valves standard on all units
- Evaporator heater tape as standard on all units
- Multiple capacity steps
- Double refrigeration circuit (from 80HP on for air-cooled units)

SPECIFICATIONS

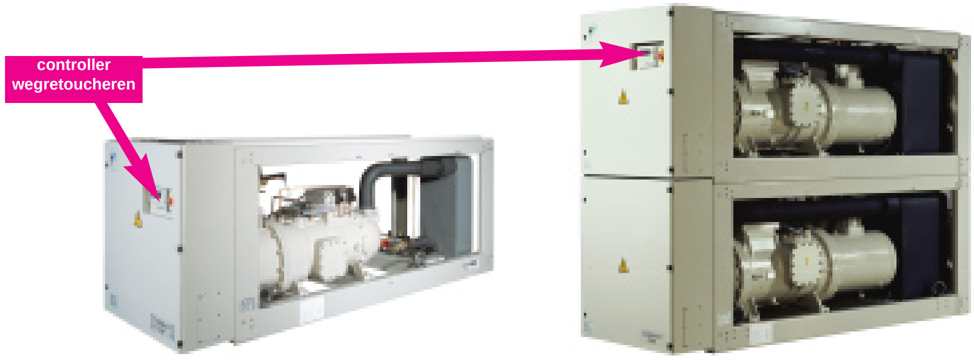
			EUWA*40MX	EUWA*50MX	EUWA*60MX	EUWA*80MX	EUWA*100MX
Nominal cooling capacity		kW	111	140	166	211	276
Nominal power input		kW	39.1	53.7	64.0	79	110
Capacity steps		%	100-75-55-0			100-88-76-63-50-38-25-0	
Compressor type			semi-hermetic single screw compressor				
Refrigerant type			R-134a				
No. of circuits/compressors			1/1	1/1	1/1	2/2	2/2
Dimensions	HxWxD	mm	2,221x3,973x1,109			2,248x3,973x2,216	
Machine weight		kg	1,391	1,600	1,705	2,710	3,210
Operation weight		kg	1,439	1,655	1,798	2,790	3,345
Sound power level		dBA	91	97	95	94	100
Power supply		Y1	3~, 50Hz, 400V				
		T1	3~, 50Hz, 230V	3~, 50Hz, 230V	3~, 50Hz, 230V	3~, 50Hz, 230V	3~, 50Hz, 230V

			EUWA*120MX	EUWA*160MX	EUWA*180MX	EUWA*200MX
Nominal cooling capacity		kW	316	400	438	475
Nominal power input		kW	130	164	178	191
Capacity steps		%	100-88-76-63-50-38-25-0	100-87-74-61-48-42-36-18-0	100-88-74-62-48-43-36-20-0	100-87-74-61-48-42-36-18-0
Compressor type			semi-hermetic single screw compressor			
Refrigerant type			R-134a			
No. of circuits/compressors			2/2	2/2	2/2	2/2
Dimensions	HxWxD	mm	2,248x3,973x2,216	2,250x5,906x2,238		
Machine weight		kg	3,260	5,400	5,450	5,500
Operation weight		kg	3,385	5,488	5,544	5,603
Sound power level		dBA	98	99	100	100
Power supply		Y1	3~, 50Hz, 400V			
		T1	3~, 50Hz, 230V	-	-	-

OPTIONS

option number	option description	model-type			unit size									availability
		PED	d	s	40	50	60	80	100	120	160	180	200	
	Completely combinable options													
op01	liquid line solenoid valve	std	std	std										
op03	dual pressure relief valve on the condenser	o	std	std	o	o	o	o	o	o	o	o	o	fact. mounted
op12	suction stop valve	o	std	std	o	o	o	o	o	o	o	o	o	fact. mounted
op52	main isolator switch	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
op57	a-meter, V-meter	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
OPLN	low noise operation	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
OPCG	condenser protection grilles	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted

o available
std standard



EUWL*40-100MX EUW*120-200MX

16 EUW(L)*40-200MXY1/T1

Water-cooled (remote condenser) chillers using R-134a

BACKGROUND

The current EUW(L)*40-200KX series will be replaced by the new MX series. These chillers contain the new G-type compressor and are equipped with the new pCO² controllers (see chapter 17).

MODEL RANGE

Water-cooled water chillers		Remote condenser chillers	
EUW40MXY	EUW40MXT	EUWL40MXY	EUWL40MXT
EUW60MXY	EUW60MXT	EUWL60MXY	EUWL60MXT
EUW80MXY	EUW80MXT	EUWL80MXY	EUWL80MXT
EUW100MXY	EUW100MXT	EUWL100MXY	EUWL100MXT
EUW120MXY	EUW120MXT	EUWL120MXY	EUWL120MXT
EUW140MXY	EUW140MXT	EUWL140MXY	EUWL140MXT
EUW160MXY	EUW160MXT	EUWL160MXY	EUWL160MXT
EUW180MXY	EUW180MXT	EUWL180MXY	EUWL180MXT
EUW200MXY	EUW200MXT	EUWL200MXY	EUWL200MXT

FEATURES

- All models are PED pressure vessel approved
- Daikin single screw compressor
- All components optimised for use with R-134a refrigerant
- Advanced pCO² DDC controller
- Electronic expansion valve for refrigerant circuits >= 80HP
- Modular format
- Standard operating range down to -15°C ambient
- High quality, anti-corrosion treated components as standard
- Moisture indicator as standard
- Victaulic joints as standard
- Chilled water temperatures down to -10°C on standard unit.
  (Parameter in the service menu of the DDC controller must be set by the installer)
- DICN operation as standard between all listed air-cooled and listed water-cooled units.
  (air-cooled and water-cooled can not be mixed)
- Evaporator heater tape as standard on all units
- Multiple capacity steps
- Double refrigeration circuit (from 120HP on)

SPECIFICATIONS

			EUW*40MX	EUW*60MX	EUW*80MX	EUW*100MX	EUW*120MX
Nominal capacity	cooling	kW	120	190	249	290	380
	heating	kW	149	237	313	362	474
Nominal input	cooling	kW	30.0	48.6	66.1	74	97.2
	heating	kW	35.1	57.2	75.5	87.3	114.0
Capacity steps		%	100-74-48-12(start up)		100-74-48-36-12(start up)		100-88-76-63-50-38-25-12(start up)
Refrigerant circuit	type		R-134a	R-134a	R-134a	R-134a	R-134a
Compressor	type		semi-hermetic single screw				
No. of circuits/compressors			1/1	1/1	1/1	1/1	2/2
Dimensions		mm	1,014 x 2,672 x 898				2,000 x 2,672 x 898
Machine weight		kg	990	1,320	1,640	1,680	2,640
Operation weight		kg	1,020	1,370	1,710	1,760	2,740
Sound power level		dB(A)	90	96	96	98	99
Power supply		Y1	3~/400V/50Hz				
		T1	3~/230V/50Hz				

			EUW*140MX	EUW*160MX	EUW*180MX	EUW*200MX
Nominal capacity	cooling	kW	439	498	539	580
	heating	kW	626	675	724	
Nominal input	cooling	kW	115	132	140	148
	heating	kW	133.0	151	163	175
Capacity steps		%	100-88-76-63-50-38-25-12(start up)	100-87-74-68-50-37-24-18-12(start up)		
Refrigerant circuit	type		R-134a	R-134a	R-134a	R-134a
Compressor	type		semi hermetic single screw			
No. of circuits/compressors			2/2	2/2	2/2	2/2
Dimensions		mm	2,000 x 2,672 x 898			
Machine weight		kg	2,960	3,280	3,320	3,360
Operation weight		kg	3,080	3,420	3,470	3,520
Sound power level		dB(A)	99	99	100	101
Power supply		Y1	3~/400V/50Hz			
		T1	3~/230V/50Hz			

OPTIONS

option number	option description	model-type			unit size										availability
		PED	d	s	40	50	60	80	100	120	140	160	180	200	
	Completely combinable options														
op01	liquid line solenoid valve	o	std	std	o	o	o	o	o	o	o	o	o	o	fact. mounted
op03	dual pressure relief valve on the condenser	o	std	std	o	o	o	o	o	o	o	o	o	o	fact. mounted
op12	suction stop valve (only Y1-model)	o	std	std	o	o	o	o	o	o	o	o	o	o	fact. mounted
op52	main isolator switch	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
op57	a-meter, V-meter	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
OPLN	low noise operation	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted

o available
std standard

SPECIFICATIONS

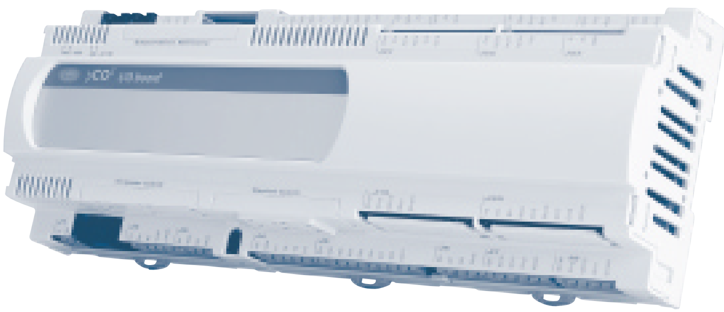
			EUWL*40MX	EUWL*60MX	EUWL*80MX	EUWL*100MX	EUWL*120MX
Nominal capacity	cooling	kW	119	188	246	287	376
Nominal input	cooling	kW	30.5	49.4	67.2	75.3	98.9
Capacity steps		%	100-74-48-12(start up)		100-74-48-36-12(start up)		100-88-76-63-50-38-25-12(start up)
Refrigerant circuit	type		R-134a	R-134a	R-134a	R-134a	R-134a
Compressor	type		semi-hermetic single screw				
No. of circuits/compressors			1/1	1/1	1/1	1/1	2/2
Dimensions		mm	1,014 x 2,672 x 898				2,000 x 2,672 x 898
Machine weight		kg	882	1,100	1,370	1,410	2,200
Operation weight		kg	895	1,120	1,397	1,444	2,240
Sound power level		dB(A)	90	96	96	98	99
Power supply		Y1	3~/400V/50Hz				
		T1	3~/230V/50Hz				

			EUWL*140MX	EUWL*160MX	EUWL*180MX	EUWL*200MX
Nominal capacity	cooling	kW	434	493	533	574
Nominal input	cooling	kW	117	134	143	151
Capacity steps		%	100-88-76-63-50-38-25-12(start up)	100-87-74-68-50-37-24-18-12(start up)		
Refrigerant circuit	type		R-134a	R-134a	R-134a	R-134a
Compressor	type		semi hermetic single screw			
No. of circuits/compressors			2/2	2/2	2/2	2/2
Dimensions		mm	2,000 x 2,672 x 898			
Machine weight		kg	2,470	2,740	2,780	2,820
Operation weight		kg	2,517	2,794	2,841	2,888
Sound power level		dB(A)	99	99	100	101
Power supply		Y1	3~/400V/50Hz			
		T1	3~/230V/50Hz			

OPTIONS

option number	option description	model-type			unit size										availability
		PED	d	s	40	50	60	80	100	120	140	160	180	200	
	Completely combinable options														
op01	liquid line solenoid valve	std	std	std	o	o	o	o	o	o	o	o	o	o	fact. mounted
op03	dual pressure relief valve on the condenser	o	std	std	o	o	o	o	o	o	o	o	o	o	fact. mounted
op12	suction stop valve	o	std	std	o	o	o	o	o	o	o	o	o	o	fact. mounted
op52	main isolator switch	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
op57	a-meter, V-meter	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted
OPLN	low noise operation	o	o	o	o	o	o	o	o	o	o	o	o	o	fact. mounted

o available
std standard



pCO² controller

17 pCO² CONTROLLER

BACKGROUND

To respond to the increasing market demand for accurate control, all Daikin chillers will be equipped with the newest pCO² controller.

FUNCTIONS

Advanced pCO² DDC controller offering following functions:

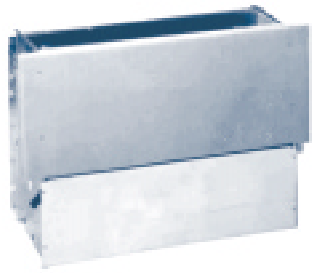
- **Schedule timer**: Four timer groups can be used, in which up to nine time related actions can be defined. Days appointed to a timer group will follow the time related action settings of that group. Holiday periods that can also be entered by date. All days in such periods will work according to the settings in the holiday group, which is defined in the same way as the timer groups. (Note: for this to work correctly the internal time, date and day need to be set correctly)
- **Floating setpoint**: adjustment of setpoint according to ambient temperature
- **Free cooling**: feature that allows the unit to be integrated into a free cooling application
- **Double evaporator pump**: enables the use of two evaporator pumps (together or as a backup)
- **Lead-lag of compressors**: the compressors can be set for lead-lag operation
- **Manual pump on**: the facility to turn the pump on manually if the unit is off, in order to test the pump operation
- **Time and date information**: time, date and day can be set
- **Daily pump on**: the facility to turn on the pump automatically each day at a set time to avoid pump blockage as a result of its being idle for a long time
- **Changeable digital inputs/outputs**: several digital inputs/outputs can be given a series of functions depending on user preference.
  Changeable digital inputs are: remote on/off, remote cooling/heating, dual setpoint and limit capacity.
  Changeable digital outputs are: heating mode/cooling mode output signal, 100% unit signal and condenser pump (facility to steer condenser pump).
- **Temperature probe fine tuning**: the facility to adjust the water temperature probes in order to fine tune the measurement
- **Advanced freeze-up control**: either normal freeze-up alarm can be used or the unit can be allowed to go into freeze-up several times in a certain time period without generating an alarm, the unit will only cease operating for a certain time.
- **Extended alarm history**: up to 20 alarms can be reviewed
- **Languages**: 5 languages can be selected on the controller (English, German, French, Italian, Spanish)



FWV3C(F)6V1



FWH3C(F)6V1



FWM3A(F)6V1

18 FWV/FWH1-10C(F)6V1

Low wall unit / flexi type unit

FWM1-10A(F)6V1

Concealed flexi type unit

BACKGROUND

A completely new range of fan coils will be available by spring next year. Main features of these units will be their low sound level, their new modern design and controls.
Moreover, each model will be available in 7 capacity versions, both 2- and 4-pipe.

MODEL RANGE

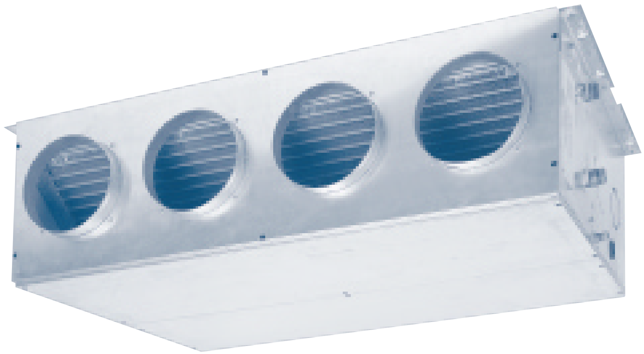
FWV1C(F)6V1	FWH1C(F)6V1	FWM1A(F)6V1
FWV2C(F)6V1	FWH2C(F)6V1	FWM2A(F)6V1
FWV3C(F)6V1	FWH3C(F)6V1	FWM3A(F)6V1
FWV4C(F)6V1	FWH4C(F)6V1	FWM4A(F)6V1
FWV6C(F)6V1	FWH6C(F)6V1	FWM6A(F)6V1
FWV8C(F)6V1	FWH8C(F)6V1	FWM8A(F)6V1
FWV10C(F)6V1	FWH10C(F)6V1	FWM10A(F)6V1

FEATURES

- **Low wall unit FWV :**
  - new casing
  - vertical air outlet
  - adjustable air outlet grille
  - with side doors
  - new electronic or mechanical controller
- **Flexi type unit FWH :**
  - new modern casing
  - adjustable air outlet grille
  - can be installed on either floor or ceiling
- **Concealed flexi type unit FWM :**
  - FWHM and FWVM are integrated into 1 model
  - standard drainpan for both vertical and horizontal use

SPECIFICATIONS

FWV/FWH-C(F)6V1 FWM-A(F)6V1			1	2	3	4	6	8	10
Total cooling capacity	H	W	1,540	2,090	2,930	4,330	4,770	6,710	8,710
Sensible capacity	H	W	1,200	1,500	2,250	3,420	3,650	4,900	6,380
Heating capacity (2-pipe)	H	W	3,410	4,370	6,050	8,940	9,760	13,560	17,620
Heating capacity (4-pipe)	H	W	2,260	2,340	3,330	5,110	5,270	8,000	9,430
Power input	H/L	W	36/21	46/21	62/30	87/41	89/42	182/86	244/109
Water flow rate (2-pipe)	cooling (H)	l/h	266	359	509	732	817	1,130	1,487
	heating (H)	l/h	299	383	530	784	856	1,190	1,545
Water flow rate (4-pipe)	H	l/h	198	205	292	448	462	702	827
Air flow rate	H/L	m^3/h	319/178	344/211	442/241	706/361	785/470	1,011/570	1,393/642
Sound power level	H/L	dBA	47/34	52/36	50/38	55/40	59/44	59/44	66/48
Dimensions (FWH)	HxWxD	mm	226x774x564		226x984x564	226x1,194x564		251x1,404x564	251x1,614x564
Dimensions (FWV)	HxWxD	mm	564x774x226		564x984x226	564x1,194x226		564x1,404x251	564x1,614x251
Dimensions (FWM)	HxWxD	mm	535x498x224		535x708x224	535x918x224		535x1,128x249	535x1,338x249
Weight (FWH) (2-/4-pipe)		kg	20.9/22	22.1/23.2	27.7/29	33.3/35	33.3/35	42.3/44.6	43.1/45.4
Weight (FWV) (2-/4-pipe)		kg	20.1/21.2	20.6/21.7	26.1/27.4	31.8/33.5	31.8/33.5	40.8/43.1	40.8/43.1
Weight (FWM) (2-/4-pipe)		kg	14.6/15.7	15.1/16.2	19.5/20.8	23.8/25.5	24.6/26.3	31.8/34.1	31.8/34.1



FWD12A(F)6

19 FWD4-18A(F)6V1

Concealed ceiling unit

BACKGROUND

Next spring, to expand the range of existing duct units (FWM), Daikin will introduce a range of high ESP fan coil units.

MODEL RANGE

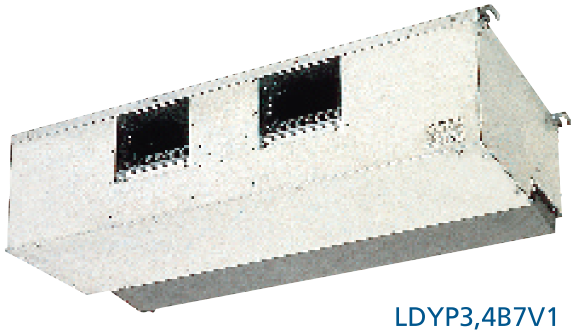
FWD4A(F)6V1
FWD6A(F)6V1
FWD8A(F)6V1
FWD10A(F)6V1
FWD12A(F)6V1
FWD16A(F)6V1
FWD18A(F)6V1

FEATURES

- extension of the range up to 18.3 kW cooling capacity
- external static pressure from 90 Pa (FWD4) to 185 Pa (FWD18)
- standard filter
- low height
- small dimensions
- low noise levels

SPECIFICATIONS

FWD-A(F)6V1			4	6	8	10	12	16	18
Total cooling capacity		kW	3.9	6.2	7.8	8.82	11.9	16.4	18.3
Sensible capacity		kW	3.08	4.65	6.52	7.36	9.36	12.8	14.3
Heating capacity (2-pipe)		kW	10.1	16.1	19.6	22.4	30.0	40.9	45.0
Heating capacity (4-pipe)		kW	5.63	8.24	11.5	11.5	19.7	26.2	26.2
Maximum power input		W	250	410	500	500	700	1,100	1,100
Available static pressure		Pa	90	88	100	95	130	205	185
Water flow rate (2-pipe)	cooling	l/h	674	1,071	1,469	1,659	2,056	2,833	3,162
	heating	l/h	872	1,391	1,840	2,116	2,592	3,533	3,887
Water flow rate (4-pipe)		l/h	968	1,417	1,978	1,978	3,388	4,490	4,490
Air flow rate		m^3/h	800	1,250	1,600	1,600	2,200	3,000	3,000
Sound power level		dBA	66	69	72	72	74	78	78
Dimensions	HxWxD	mm	280x754x559	280x964x559	280x1,174x559		352x1,174x718	352x1,384x718	
Weight		kg	32.5	40.6	47.3	48.7	65.3	77	79.5



LDYP3,4B7V1



LGYP2,3B7V1

20 LDYP3-4B7V1 / LGYP2-3B7V1

Medium temperature range refrigeration units

BACKGROUND

Daikin Europe NV launches the Refrigeration business in Europe. The objective of Refrigeration is to cool or to freeze products, as well as to keep the right temperature for employees working in the processing areas. This business contains the Medium, Chilled and Frozen range.

MODEL RANGE

INDOOR UNITS	OUTDOOR UNITS
LDYP3B7V1	RYP71B7W1
LDYP4B7V1	RYP100B7W1
LDYP4B7V1	RYP125B7W1
LGYP3B7V1	RYP71B7W1
LGYP2B7V1	RYP100B7W1
LGYP2B7V1	RYP125B7W1

FEATURES

- Low sound level
- High reliability
- Long piping length: up to 50m
- Wide outdoor operation range: -15°C to 46°CDB in cooling mode, -9°C to 21°CDB in heating mode
- Indoor unit operation range: down to 14°C
- Possible applicatons are wine storage & selling area, food processing work shop and various areas where lower temperature air conditioning is required for the food quality and sanitary conditions.

SPECIFICATIONS

INDOOR UNIT			3HP	4HP	5HP	3HP	4HP	5HP
			LDYP3B7V1	LDYP4B7V1		LGYP3B7V1	LGYP2B7V1	
			Pair	Pair		Pair	Twin	
Capacity	cooling	kW	6.4	9.0	11.0	6.4	9.0	11.0
	heating	kW	7.9	11.4	14.9	7.9	11.4	14.9
Power input	cooling	kW	2.5	3.4	4.4	2.5	3.4	4.4
	heating	kW	2.4	3.3	4.3	2.4	3.3	4.3
Sound power level (M)	cooling	dB(A)	75	81		56 (H)	53 (H)	
	heating	dB(A)	75	81		56 (H)	53 (H)	
Sound pressure level (M)	cooling	dB(A)	44	45		40/35 (H/L)	37/32 (H/L)	
	heating	dB(A)	44	45		40/35 (H/L)	37/32 (H/L)	
Air flow rate (M)	cooling	m^3/min	43	69		31/24 (H/L)	28/21 (H/L)	
	heating	m^3/min	43	69		31/24 (H/L)	28/21 (H/L)	
External static pressure		Pa	150	250		-	-	
Fan speed			3 steps (direct drive)	3 steps (direct drive)		2 steps (direct drive)	2 steps (direct drive)	
Piping connections	liquid / gas (flare)	mm	9.5/15.9	9.5/19.1		9.5/15.9	9.5/19.1	
	drain ID / OD	mm	23/25			25/32 (VP25)		
Heat insulation			conduites de liquide et de gaz					
Operation range	cooling		14°CDB ~ 30°CDB / 10°CWB ~ 24°CWB (Humidity 80% or below)					
	heating		14°CDB ~ 24°CDB					
Operation mode			cooling, heating, auto and fan only					
Dimensions	HxWxD	mm	350x1,400x662	450x1,400x900		288x840x840	288x840x840	
Weight		kg	59	90		27	27	
Refrigerant			R-407C	R-407C		R-407C	R-407C	
OUTDOOR UNIT			**RYP71B7W1**	**RYP100B7W1**	**RYP125B7W1**	**RYP71B7W1**	**RYP100B7W1**	**RYP125B7W1**
Sound power level (M)	cooling/heating	dB(A)	63/-	66/-	67/-	63/-	66/-	67/-
Sound pressure level (M)	cooling/heating	dB(A)	50/52	53/56	53/56	50/52	53/56	53/56
Max. piping length & height		m	Max. piping length: 50m, Max. level difference: 30m, chargeless piping length: up to 30m					
Operation range	cooling		-15°CDB ~ 46°CDB					
	heating		-9°CDB ~ 21°CDB / -10°CWB ~ 15°CWB					

Notes:
1. Nominal cooling capacities are based on indoor temperature 14°CDB, 80% RH • outdoor temperature 35°CDB • refrigerant piping length 7,5m • level difference: 0m.
2. Nominal heating capacities are based on indoor temperature 14°CDB • outdoor temperature 7°CDB/6°CWB • refrigerant piping length 7.5m • level difference: 0m.
3. Sound level in cooling mode is based on indoor temperature 27°CDB / 19°CWB • outdoor temperature 35°C
4. Sound level in heating mode is based on indoor temperature 20°CDB • outdoor temperature 7°CDB/6°CWB
5. Sound pressure level is measured at 1 m distance from the unit
6. Sound and air flow rate of LGYP2B7V1: values shown in the above table are for one unit in twin application
7. The following models have reducers to adjust indoor auxiliary piping and field piping (standard accessories)

	Liquid side	Gas side
LDYP3B7V1	-	19.1 --> 15.9
LDYP4B7V1	12.7—>9.5	28.6 --> 19.1
LGYP3B7V1	-	19.1 --> 15.9

OPTIONS

	Item	Model		LGYP2B7V1	LGYP3B7V1
1	Decoration panel			BYC125KJW1	
2	Filter related	replacement long life filter	non-woven type	KAFJ551K160	
3	Sealing member of air discharge outlet			KDBHJ55B160	
4	Panel spacer			KDBJ55K160W	
5	Branch duct chamber			KDJ55B160	
6	Chamber connection kit			KKSJ55K160	
7	Refrigerant branch piping (For twin application)			KHRP928A4T	-

OPTIONS

	Item	Model	LDYP3B7V1	LDYP4B7V1
1	Drain pump		EKDU125A1	

CONTROL SYSTEM

	Item	LGYP2B7V1	LGYP3B7V1
1	Wired remote controller	BRC1C517	
2-1	Wiring adaptor for electrical appendices (1)	KRP1B57 *	
2-2	Wiring adaptor for electrical appendices (2)	KRP4A53 *	
3	Remote sensor	KRCS01-1	
4	Installation box for adaptor PCB	KRP1C98	
5	Central remote controller	DCS302B51	
5-1	Electrical box with earth terminal (3 blocks)	KJB311A	
6	Unified ON/OFF controller	DCS301B51	
6-1	Electrical box with earth terminal (2 blocks)	KJB212A	
6-2	Noise filter (for electromagnetic interface use only)	KEK26-1	
7	Schedule timer	DST301B51	
8	Interface adaptor for Sky Air series	DTA102A52	

Note: installation box is necessary for each adaptor marked*

CONTROL SYSTEM

	Item	LDYP3B7V1	LDYP4B7V1
1	Wired remote controller	BRC1C517	
2	Wiring adaptor for electrical appendices	KRP4A51	
3	Central remote controller	DCS302B51	
4	Unified ON/OFF controller	DCS301B51	
5	Electric heater PCB kit	EKRP1B2	
6	Schedule timer	DST301B51	
7	Interface adaptor for Sky Air series	DTA102A52	

POWER SUPPLY

T1 = 3~, 220V, 50Hz	W1 = 3N~, 400V, 50Hz
V1 = 1~, 230V, 50Hz	Y1 = 3~, 400V, 50Hz
VE = 1~, 230V, 50Hz	

MEASURING CONDITIONS

COOLING ONLY

1) nominal cooling capacities are based on:

indoor temperature	27°CDB/19°CWB
outdoor temperature	35°CDB
refrigerant piping length	7.5m - 8/5m VRV
level difference	0m

HEAT PUMP

1) nominal cooling capacities are based on:

indoor temperature	27°CDB/19°CWB
outdoor temperature	35°CDB
refrigerant piping length	7.5m - 8/5m VRV
level difference	0m

2) nominal heating capacities are based on:

indoor temperature	20°CDB
outdoor temperature	7°CDB/6°CWB
refrigerant piping length	7.5m - 8/5m VRV
level difference	0m

HYDRONIC SYSTEMS

Air-cooled chillers		Evaporator: 12°C/7°C ; ambient: 35°C
Water-cooled chillers		Evaporator: 12°C/7°C
		Condenser: 30°C/35°C
Fan coil units	cooling	Entering air temperature: 27°CDB / 19°CWB
		Entering water temperature: 7°C
		Water temperature rise: 5K
	heating	Entering air temperature: 20°C
		Entering water temperature: 70°C (FWV/FWH/FWM); 80°C (FWD)
		Water temperature decrease: 10K

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks).
The sound power level is an absolute value indicating the "power" which a sound source generates.
For more detailed information please consult our technical databooks.

NOTES

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe NV is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard.
ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin products are distributed by:

Specifications are subject to change without prior notice

DAIKIN EUROPE NV
Zandvoordestraat 300
B-8400 Oostende, Belgium
Internet: http://www.daikin.be

EPCE01-12 / 2,500 / 11/01 La Movida
Printed on non-chlorinated paper / Printed in Belgium